



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13764
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 12/22/22
[TEST DATE] 11/23/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-WF-40
[TEST PROCEDURE] IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[FACTORED] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 4000

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

CHARACTERISTICS

| | |
|------------------------------|-----------------|
| NEMA Type | 6 H x 6 V |
| Maximum Candela | 72976 |
| Maximum Candela Angle | 0H -1V |
| Horizontal Beam Angle (50%) | 44.7 |
| Vertical Beam Angle (50%) | 45.1 |
| Horizontal Field Angle (10%) | 107.3 |
| Vertical Field Angle (10%) | 107.5 |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Beam Lumens | 25924 |
| Beam Efficiency | N.A. |
| Field Lumens | 61388 |
| Field Efficiency | N.A. |
| Spill Lumens | 6272 |
| Luminaire Lumens | 67661 |
| Total Efficiency | N.A. |
| Total Luminaire Watts | 463 |
| Ballast Factor | 1.00 |

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AXIAL CANDELA

| DEG. | HOR. | DEG. | VERT. |
|-------|-------|-------|-------|
| 90 | 0 | 90 | 0 |
| 85 | 106 | 85 | 104 |
| 75 | 690 | 75 | 702 |
| 65 | 1945 | 65 | 1971 |
| 55 | 6455 | 55 | 6507 |
| 47.5 | 11109 | 47.5 | 11174 |
| 42.5 | 14537 | 42.5 | 14589 |
| 37.5 | 17792 | 37.5 | 17770 |
| 33 | 21181 | 33 | 21215 |
| 29 | 24930 | 29 | 25016 |
| 25.5 | 29686 | 25.5 | 30175 |
| 22.5 | 36116 | 22.5 | 36570 |
| 19.5 | 44267 | 19.5 | 44362 |
| 17 | 50700 | 17 | 50768 |
| 15 | 55487 | 15 | 55572 |
| 13 | 59692 | 13 | 59853 |
| 11 | 63462 | 11 | 63595 |
| 9 | 66822 | 9 | 66790 |
| 7 | 69654 | 7 | 69430 |
| 5 | 71693 | 5 | 71512 |
| 3 | 72714 | 3 | 72710 |
| 1 | 72959 | 1 | 72976 |
| 0 | 72953 | 0 | 72953 |
| -1 | 72959 | -1 | 72976 |
| -3 | 72714 | -3 | 72710 |
| -5 | 71693 | -5 | 71512 |
| -7 | 69654 | -7 | 69430 |
| -9 | 66822 | -9 | 66790 |
| -11 | 63462 | -11 | 63595 |
| -13 | 59692 | -13 | 59853 |
| -15 | 55487 | -15 | 55572 |
| -17 | 50700 | -17 | 50768 |
| -19.5 | 44267 | -19.5 | 44362 |
| -22.5 | 36116 | -22.5 | 36570 |
| -25.5 | 29686 | -25.5 | 30175 |
| -29 | 24930 | -29 | 25016 |
| -33 | 21181 | -33 | 21215 |
| -37.5 | 17792 | -37.5 | 17770 |
| -42.5 | 14537 | -42.5 | 14589 |
| -47.5 | 11109 | -47.5 | 11174 |
| -55 | 6455 | -55 | 6507 |
| -65 | 1945 | -65 | 1971 |
| -75 | 690 | -75 | 702 |
| -85 | 106 | -85 | 104 |
| -90 | 0 | -90 | 0 |

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CANDELA TABULATION

Maximum Candela = 72976

Beam Edge = 36488 Cd (50% of Max.)

Field Edge = 7297.6 Cd (10% of Max.)

* Indicates Values Inside Field Edge

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | -90.0 | -85.0 | -75.0 | -65.0 | -55.0 | -47.5 | -42.5 | -37.5 | -33.0 | -29.0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 0 | 6 | 18 | 28 | 44 | 60 | 69 | 77 | 83 | 88 |
| 75.0 | 0 | 17 | 73 | 160 | 267 | 349 | 408 | 464 | 510 | 553 |
| 65.0 | 0 | 28 | 158 | 364 | 624 | 842 | 998 | 1153 | 1293 | 1408 |
| 55.0 | 0 | 44 | 263 | 621 | 1102 | 1561 | 1937 | 2551 | 3262 | 3909 |
| 47.5 | 0 | 58 | 347 | 840 | 1560 | 2602 | 3763 | 5088 | 6183 | 7193 |
| 42.5 | 0 | 67 | 407 | 994 | 1947 | 3782 | 5333 | 6927 | 8394 * | 9659 * |
| 37.5 | 0 | 76 | 461 | 1148 | 2578 | 5123 | 6949 | 8912 * | 10691 * | 12175 * |
| 33.0 | 0 | 82 | 506 | 1291 | 3271 | 6221 | 8391 * | 10648 * | 12649 * | 14446 * |
| 29.0 | 0 | 88 | 548 | 1412 | 3883 | 7197 | 9634 * | 12110 * | 14415 * | 16231 * |
| 25.5 | 0 | 92 | 580 | 1516 | 4429 | 7993 * | 10644 * | 13345 * | 15703 * | 17588 * |
| 22.5 | 0 | 95 | 605 | 1599 | 4846 | 8663 * | 11445 * | 14366 * | 16705 * | 18859 * |
| 19.5 | 0 | 98 | 627 | 1685 | 5227 | 9268 * | 12187 * | 15190 * | 17633 * | 20080 * |
| 17.0 | 0 | 100 | 643 | 1747 | 5513 | 9719 * | 12745 * | 15775 * | 18409 * | 21028 * |
| 15.0 | 0 | 101 | 654 | 1791 | 5715 | 10026 * | 13159 * | 16195 * | 18975 * | 21733 * |
| 13.0 | 0 | 102 | 664 | 1830 | 5894 | 10298 * | 13512 * | 16586 * | 19466 * | 22416 * |
| 11.0 | 0 | 106 | 672 | 1864 | 6048 | 10531 * | 13811 * | 16925 * | 19907 * | 23010 * |
| 9.0 | 0 | 106 | 678 | 1891 | 6177 | 10726 * | 14063 * | 17209 * | 20294 * | 23507 * |
| 7.0 | 0 | 106 | 683 | 1913 | 6281 | 10882 * | 14266 * | 17438 * | 20616 * | 23978 * |
| 5.0 | 0 | 106 | 691 | 1929 | 6363 | 10997 * | 14418 * | 17609 * | 20859 * | 24388 * |
| 3.0 | 0 | 106 | 691 | 1946 | 6449 | 11119 * | 14569 * | 17724 * | 21026 * | 24672 * |
| 1.0 | 0 | 106 | 690 | 1945 | 6453 | 11112 * | 14548 * | 17791 * | 21150 * | 24877 * |
| 0.0 | 0 | 106 | 690 | 1945 | 6455 | 11109 * | 14537 * | 17792 * | 21181 * | 24930 * |
| -1.0 | 0 | 106 | 690 | 1945 | 6453 | 11112 * | 14548 * | 17791 * | 21150 * | 24877 * |
| -3.0 | 0 | 106 | 691 | 1946 | 6449 | 11119 * | 14569 * | 17724 * | 21026 * | 24672 * |
| -5.0 | 0 | 106 | 691 | 1929 | 6363 | 10997 * | 14418 * | 17609 * | 20859 * | 24388 * |
| -7.0 | 0 | 106 | 683 | 1913 | 6281 | 10882 * | 14266 * | 17438 * | 20616 * | 23978 * |
| -9.0 | 0 | 106 | 678 | 1891 | 6177 | 10726 * | 14063 * | 17209 * | 20294 * | 23507 * |
| -11.0 | 0 | 106 | 672 | 1864 | 6048 | 10531 * | 13811 * | 16925 * | 19907 * | 23010 * |
| -13.0 | 0 | 102 | 664 | 1830 | 5894 | 10298 * | 13512 * | 16586 * | 19466 * | 22416 * |
| -15.0 | 0 | 101 | 654 | 1791 | 5715 | 10026 * | 13159 * | 16195 * | 18975 * | 21733 * |
| -17.0 | 0 | 100 | 643 | 1747 | 5513 | 9719 * | 12745 * | 15775 * | 18409 * | 21028 * |
| -19.5 | 0 | 98 | 627 | 1685 | 5227 | 9268 * | 12187 * | 15190 * | 17633 * | 20080 * |
| -22.5 | 0 | 95 | 605 | 1599 | 4846 | 8663 * | 11445 * | 14366 * | 16705 * | 18859 * |
| -25.5 | 0 | 92 | 580 | 1516 | 4429 | 7993 * | 10644 * | 13345 * | 15703 * | 17588 * |
| -29.0 | 0 | 88 | 548 | 1412 | 3883 | 7197 | 9634 * | 12110 * | 14415 * | 16231 * |
| -33.0 | 0 | 82 | 506 | 1291 | 3271 | 6221 | 8391 * | 10648 * | 12649 * | 14446 * |
| -37.5 | 0 | 76 | 461 | 1148 | 2578 | 5123 | 6949 | 8912 * | 10691 * | 12175 * |
| -42.5 | 0 | 67 | 407 | 994 | 1947 | 3782 | 5333 | 6927 | 8394 * | 9659 * |
| -47.5 | 0 | 58 | 347 | 840 | 1560 | 2602 | 3763 | 5088 | 6183 | 7193 |
| -55.0 | 0 | 44 | 263 | 621 | 1102 | 1561 | 1937 | 2551 | 3262 | 3909 |
| -65.0 | 0 | 28 | 158 | 364 | 624 | 842 | 998 | 1153 | 1293 | 1408 |
| -75.0 | 0 | 17 | 73 | 160 | 267 | 349 | 408 | 464 | 510 | 553 |
| -85.0 | 0 | 6 | 18 | 28 | 44 | 60 | 69 | 77 | 83 | 88 |
| -90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

IES FLOOD REPORT
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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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 92 | 95 | 99 | 101 | 103 | 104 | 108 | 108 | 108 | 108 |
| 75.0 | 586 | 611 | 633 | 648 | 660 | 669 | 677 | 683 | 688 | 696 |
| 65.0 | 1508 | 1593 | 1685 | 1753 | 1801 | 1843 | 1878 | 1909 | 1933 | 1952 |
| 55.0 | 4466 | 4896 | 5276 | 5558 | 5759 | 5938 | 6092 | 6221 | 6323 | 6399 |
| 47.5 | 8014 * | 8677 * | 9268 * | 9709 * | 10030 * | 10318 * | 10570 * | 10784 * | 10958 * | 11090 * |
| 42.5 | 10664 * | 11467 * | 12194 * | 12719 * | 13139 * | 13521 * | 13854 * | 14125 * | 14340 * | 14504 * |
| 37.5 | 13413 * | 14391 * | 15215 * | 15820 * | 16256 * | 16641 * | 16976 * | 17260 * | 17498 * | 17678 * |
| 33.0 | 15741 * | 16764 * | 17703 * | 18457 * | 19013 * | 19509 * | 19971 * | 20373 * | 20704 * | 20961 * |
| 29.0 | 17617 * | 18862 * | 20067 * | 21026 * | 21749 * | 22509 * | 23147 * | 23663 * | 24134 * | 24571 * |
| 25.5 | 19319 * | 20787 * | 22300 * | 23583 * | 24672 * | 25728 * | 26661 * | 27686 * | 28570 * | 29252 * |
| 22.5 | 20815 * | 22543 * | 24422 * | 26164 * | 27788 * | 29454 * | 31016 * | 32748 * | 34118 * | 35154 * |
| 19.5 | 22321 * | 24435 * | 26857 * | 29475 * | 31891 * | 34494 * | 36913 * | 39284 * | 41123 * | 42517 * |
| 17.0 | 23536 * | 26137 * | 29508 * | 33035 * | 36149 * | 39505 * | 42560 * | 45120 * | 47270 * | 49047 * |
| 15.0 | 24567 * | 27687 * | 31906 * | 36178 * | 39983 * | 43633 * | 46855 * | 49650 * | 51846 * | 53683 * |
| 13.0 | 25559 * | 29271 * | 34436 * | 39530 * | 43648 * | 47497 * | 50897 * | 53804 * | 56151 * | 57900 * |
| 11.0 | 26402 * | 30708 * | 36770 * | 42568 * | 46877 * | 50890 * | 54461 * | 57466 * | 59896 * | 61669 * |
| 9.0 | 27353 * | 32339 * | 39121 * | 45142 * | 49686 * | 53745 * | 57397 * | 60684 * | 63039 * | 64911 * |
| 7.0 | 28158 * | 33678 * | 41074 * | 47279 * | 51887 * | 56134 * | 59801 * | 62952 * | 65711 * | 67454 * |
| 5.0 | 28854 * | 34776 * | 42599 * | 48930 * | 53661 * | 57930 * | 61681 * | 64881 * | 67453 * | 69550 * |
| 3.0 | 29348 * | 35545 * | 43582 * | 50082 * | 54914 * | 59224 * | 63047 * | 66263 * | 68970 * | 70798 * |
| 1.0 | 29629 * | 36048 * | 44132 * | 50653 * | 55589 * | 59734 * | 63578 * | 66907 * | 69634 * | 71745 * |
| 0.0 | 29686 * | 36116 * | 44267 * | 50700 * | 55487 * | 59692 * | 63462 * | 66822 * | 69654 * | 71693 * |
| -1.0 | 29629 * | 36048 * | 44132 * | 50653 * | 55589 * | 59734 * | 63578 * | 66907 * | 69634 * | 71745 * |
| -3.0 | 29348 * | 35545 * | 43582 * | 50082 * | 54914 * | 59224 * | 63047 * | 66263 * | 68970 * | 70798 * |
| -5.0 | 28854 * | 34776 * | 42599 * | 48930 * | 53661 * | 57930 * | 61681 * | 64881 * | 67453 * | 69550 * |
| -7.0 | 28158 * | 33678 * | 41074 * | 47279 * | 51887 * | 56134 * | 59801 * | 62952 * | 65711 * | 67454 * |
| -9.0 | 27353 * | 32339 * | 39121 * | 45142 * | 49686 * | 53745 * | 57397 * | 60684 * | 63039 * | 64911 * |
| -11.0 | 26402 * | 30708 * | 36770 * | 42568 * | 46877 * | 50890 * | 54461 * | 57466 * | 59896 * | 61669 * |
| -13.0 | 25559 * | 29271 * | 34436 * | 39530 * | 43648 * | 47497 * | 50897 * | 53804 * | 56151 * | 57900 * |
| -15.0 | 24567 * | 27687 * | 31906 * | 36178 * | 39983 * | 43633 * | 46855 * | 49650 * | 51846 * | 53683 * |
| -17.0 | 23536 * | 26137 * | 29508 * | 33035 * | 36149 * | 39505 * | 42560 * | 45120 * | 47270 * | 49047 * |
| -19.5 | 22321 * | 24435 * | 26857 * | 29475 * | 31891 * | 34494 * | 36913 * | 39284 * | 41123 * | 42517 * |
| -22.5 | 20815 * | 22543 * | 24422 * | 26164 * | 27788 * | 29454 * | 31016 * | 32748 * | 34118 * | 35154 * |
| -25.5 | 19319 * | 20787 * | 22300 * | 23583 * | 24672 * | 25728 * | 26661 * | 27686 * | 28570 * | 29252 * |
| -29.0 | 17617 * | 18862 * | 20067 * | 21026 * | 21749 * | 22509 * | 23147 * | 23663 * | 24134 * | 24571 * |
| -33.0 | 15741 * | 16764 * | 17703 * | 18457 * | 19013 * | 19509 * | 19971 * | 20373 * | 20704 * | 20961 * |
| -37.5 | 13413 * | 14391 * | 15215 * | 15820 * | 16256 * | 16641 * | 16976 * | 17260 * | 17498 * | 17678 * |
| -42.5 | 10664 * | 11467 * | 12194 * | 12719 * | 13139 * | 13521 * | 13854 * | 14125 * | 14340 * | 14504 * |
| -47.5 | 8014 * | 8677 * | 9268 * | 9709 * | 10030 * | 10318 * | 10570 * | 10784 * | 10958 * | 11090 * |
| -55.0 | 4466 | 4896 | 5276 | 5558 | 5759 | 5938 | 6092 | 6221 | 6323 | 6399 |
| -65.0 | 1508 | 1593 | 1685 | 1753 | 1801 | 1843 | 1878 | 1909 | 1933 | 1952 |
| -75.0 | 586 | 611 | 633 | 648 | 660 | 669 | 677 | 683 | 688 | 696 |
| -85.0 | 92 | 95 | 99 | 101 | 103 | 104 | 108 | 108 | 108 | 108 |
| -90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 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 | 106 | 105 | 104 | 105 | 106 | 108 | 108 | 108 | 108 | 104 |
| 75.0 | 698 | 701 | 702 | 701 | 698 | 696 | 688 | 683 | 677 | 669 |
| 65.0 | 1970 | 1971 | 1971 | 1971 | 1970 | 1952 | 1933 | 1909 | 1878 | 1843 |

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 55.0 | 6488 | 6501 | 6507 | 6501 | 6488 | 6399 | 6323 | 6221 | 6092 | 5938 |
| 47.5 | 11216 * | 11188 * | 11174 * | 11188 * | 11216 * | 11090 * | 10958 * | 10784 * | 10570 * | 10318 * |
| 42.5 | 14668 * | 14615 * | 14589 * | 14615 * | 14668 * | 14504 * | 14340 * | 14125 * | 13854 * | 13521 * |
| 37.5 | 17798 * | 17801 * | 17770 * | 17801 * | 17798 * | 17678 * | 17498 * | 17260 * | 16976 * | 16641 * |
| 33.0 | 21138 * | 21212 * | 21215 * | 21212 * | 21138 * | 20961 * | 20704 * | 20373 * | 19971 * | 19509 * |
| 29.0 | 24866 * | 25003 * | 25016 * | 25003 * | 24866 * | 24571 * | 24134 * | 23663 * | 23147 * | 22509 * |
| 25.5 | 29709 * | 30049 * | 30175 * | 30049 * | 29709 * | 29252 * | 28570 * | 27686 * | 26661 * | 25728 * |
| 22.5 | 35840 * | 36391 * | 36570 * | 36391 * | 35840 * | 35154 * | 34118 * | 32748 * | 31016 * | 29454 * |
| 19.5 | 43658 * | 44262 * | 44362 * | 44262 * | 43658 * | 42517 * | 41123 * | 39284 * | 36913 * | 34494 * |
| 17.0 | 50159 * | 50680 * | 50768 * | 50680 * | 50159 * | 49047 * | 47270 * | 45120 * | 42560 * | 39505 * |
| 15.0 | 54951 * | 55651 * | 55572 * | 55651 * | 54951 * | 53683 * | 51846 * | 49650 * | 46855 * | 43633 * |
| 13.0 | 59225 * | 59934 * | 59853 * | 59934 * | 59225 * | 57900 * | 56151 * | 53804 * | 50897 * | 47497 * |
| 11.0 | 62998 * | 63700 * | 63595 * | 63700 * | 62998 * | 61669 * | 59896 * | 57466 * | 54461 * | 50890 * |
| 9.0 | 66215 * | 66866 * | 66790 * | 66866 * | 66215 * | 64911 * | 63039 * | 60684 * | 57397 * | 53745 * |
| 7.0 | 68780 * | 69473 * | 69430 * | 69473 * | 68780 * | 67454 * | 65711 * | 62952 * | 59801 * | 56134 * |
| 5.0 | 70727 * | 71582 * | 71512 * | 71582 * | 70727 * | 69550 * | 67453 * | 64881 * | 61681 * | 57930 * |
| 3.0 | 72055 * | 72602 * | 72710 * | 72602 * | 72055 * | 70798 * | 68970 * | 66263 * | 63047 * | 59224 * |
| 1.0 | 72662 * | 72967 * | 72976 * | 72967 * | 72662 * | 71745 * | 69634 * | 66907 * | 63578 * | 59734 * |
| 0.0 | 72714 * | 72959 * | 72953 * | 72959 * | 72714 * | 71693 * | 69654 * | 66822 * | 63462 * | 59692 * |
| -1.0 | 72662 * | 72967 * | 72976 * | 72967 * | 72662 * | 71745 * | 69634 * | 66907 * | 63578 * | 59734 * |
| -3.0 | 72055 * | 72602 * | 72710 * | 72602 * | 72055 * | 70798 * | 68970 * | 66263 * | 63047 * | 59224 * |
| -5.0 | 70727 * | 71582 * | 71512 * | 71582 * | 70727 * | 69550 * | 67453 * | 64881 * | 61681 * | 57930 * |
| -7.0 | 68780 * | 69473 * | 69430 * | 69473 * | 68780 * | 67454 * | 65711 * | 62952 * | 59801 * | 56134 * |
| -9.0 | 66215 * | 66866 * | 66790 * | 66866 * | 66215 * | 64911 * | 63039 * | 60684 * | 57397 * | 53745 * |
| -11.0 | 62998 * | 63700 * | 63595 * | 63700 * | 62998 * | 61669 * | 59896 * | 57466 * | 54461 * | 50890 * |
| -13.0 | 59225 * | 59934 * | 59853 * | 59934 * | 59225 * | 57900 * | 56151 * | 53804 * | 50897 * | 47497 * |
| -15.0 | 54951 * | 55651 * | 55572 * | 55651 * | 54951 * | 53683 * | 51846 * | 49650 * | 46855 * | 43633 * |
| -17.0 | 50159 * | 50680 * | 50768 * | 50680 * | 50159 * | 49047 * | 47270 * | 45120 * | 42560 * | 39505 * |
| -19.5 | 43658 * | 44262 * | 44362 * | 44262 * | 43658 * | 42517 * | 41123 * | 39284 * | 36913 * | 34494 * |
| -22.5 | 35840 * | 36391 * | 36570 * | 36391 * | 35840 * | 35154 * | 34118 * | 32748 * | 31016 * | 29454 * |
| -25.5 | 29709 * | 30049 * | 30175 * | 30049 * | 29709 * | 29252 * | 28570 * | 27686 * | 26661 * | 25728 * |
| -29.0 | 24866 * | 25003 * | 25016 * | 25003 * | 24866 * | 24571 * | 24134 * | 23663 * | 23147 * | 22509 * |
| -33.0 | 21138 * | 21212 * | 21215 * | 21212 * | 21138 * | 20961 * | 20704 * | 20373 * | 19971 * | 19509 * |
| -37.5 | 17798 * | 17801 * | 17770 * | 17801 * | 17798 * | 17678 * | 17498 * | 17260 * | 16976 * | 16641 * |
| -42.5 | 14668 * | 14615 * | 14589 * | 14615 * | 14668 * | 14504 * | 14340 * | 14125 * | 13854 * | 13521 * |
| -47.5 | 11216 * | 11188 * | 11174 * | 11188 * | 11216 * | 11090 * | 10958 * | 10784 * | 10570 * | 10318 * |
| -55.0 | 6488 | 6501 | 6507 | 6501 | 6488 | 6399 | 6323 | 6221 | 6092 | 5938 |
| -65.0 | 1970 | 1971 | 1971 | 1971 | 1970 | 1952 | 1933 | 1909 | 1878 | 1843 |
| -75.0 | 698 | 701 | 702 | 701 | 698 | 696 | 688 | 683 | 677 | 669 |
| -85.0 | 106 | 105 | 104 | 105 | 106 | 108 | 108 | 108 | 108 | 104 |
| -90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 103 | 101 | 99 | 95 | 92 | 88 | 83 | 77 | 69 | 60 |
| 75.0 | 660 | 648 | 633 | 611 | 586 | 553 | 510 | 464 | 408 | 349 |
| 65.0 | 1801 | 1753 | 1685 | 1593 | 1508 | 1408 | 1293 | 1153 | 998 | 842 |
| 55.0 | 5759 | 5558 | 5276 | 4896 | 4466 | 3909 | 3262 | 2551 | 1937 | 1561 |
| 47.5 | 10030 * | 9709 * | 9268 * | 8677 * | 8014 * | 7193 | 6183 | 5088 | 3763 | 2602 |
| 42.5 | 13139 * | 12719 * | 12194 * | 11467 * | 10664 * | 9659 * | 8394 * | 6927 | 5333 | 3782 |
| 37.5 | 16256 * | 15820 * | 15215 * | 14391 * | 13413 * | 12175 * | 10691 * | 8912 * | 6949 | 5123 |
| 33.0 | 19013 * | 18457 * | 17703 * | 16764 * | 15741 * | 14446 * | 12649 * | 10648 * | 8391 * | 6221 |
| 29.0 | 21749 * | 21026 * | 20067 * | 18862 * | 17617 * | 16231 * | 14415 * | 12110 * | 9634 * | 7197 |
| 25.5 | 24672 * | 23583 * | 22300 * | 20787 * | 19319 * | 17588 * | 15703 * | 13345 * | 10644 * | 7993 * |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 22.5 | 27788 * | 26164 * | 24422 * | 22543 * | 20815 * | 18859 * | 16705 * | 14366 * | 11445 * | 8663 * |
| 19.5 | 31891 * | 29475 * | 26857 * | 24435 * | 22321 * | 20080 * | 17633 * | 15190 * | 12187 * | 9268 * |
| 17.0 | 36149 * | 33035 * | 29508 * | 26137 * | 23536 * | 21028 * | 18409 * | 15775 * | 12745 * | 9719 * |
| 15.0 | 39983 * | 36178 * | 31906 * | 27687 * | 24567 * | 21733 * | 18975 * | 16195 * | 13159 * | 10026 * |
| 13.0 | 43648 * | 39530 * | 34436 * | 29271 * | 25559 * | 22416 * | 19466 * | 16586 * | 13512 * | 10298 * |
| 11.0 | 46877 * | 42568 * | 36770 * | 30708 * | 26402 * | 23010 * | 19907 * | 16925 * | 13811 * | 10531 * |
| 9.0 | 49686 * | 45142 * | 39121 * | 32339 * | 27353 * | 23507 * | 20294 * | 17209 * | 14063 * | 10726 * |
| 7.0 | 51887 * | 47279 * | 41074 * | 33678 * | 28158 * | 23978 * | 20616 * | 17438 * | 14266 * | 10882 * |
| 5.0 | 53661 * | 48930 * | 42599 * | 34776 * | 28854 * | 24388 * | 20859 * | 17609 * | 14418 * | 10997 * |
| 3.0 | 54914 * | 50082 * | 43582 * | 35545 * | 29348 * | 24672 * | 21026 * | 17724 * | 14569 * | 11119 * |
| 1.0 | 55589 * | 50653 * | 44132 * | 36048 * | 29629 * | 24877 * | 21150 * | 17791 * | 14548 * | 11112 * |
| 0.0 | 55487 * | 50700 * | 44267 * | 36116 * | 29686 * | 24930 * | 21181 * | 17792 * | 14537 * | 11109 * |
| -1.0 | 55589 * | 50653 * | 44132 * | 36048 * | 29629 * | 24877 * | 21150 * | 17791 * | 14548 * | 11112 * |
| -3.0 | 54914 * | 50082 * | 43582 * | 35545 * | 29348 * | 24672 * | 21026 * | 17724 * | 14569 * | 11119 * |
| -5.0 | 53661 * | 48930 * | 42599 * | 34776 * | 28854 * | 24388 * | 20859 * | 17609 * | 14418 * | 10997 * |
| -7.0 | 51887 * | 47279 * | 41074 * | 33678 * | 28158 * | 23978 * | 20616 * | 17438 * | 14266 * | 10882 * |
| -9.0 | 49686 * | 45142 * | 39121 * | 32339 * | 27353 * | 23507 * | 20294 * | 17209 * | 14063 * | 10726 * |
| -11.0 | 46877 * | 42568 * | 36770 * | 30708 * | 26402 * | 23010 * | 19907 * | 16925 * | 13811 * | 10531 * |
| -13.0 | 43648 * | 39530 * | 34436 * | 29271 * | 25559 * | 22416 * | 19466 * | 16586 * | 13512 * | 10298 * |
| -15.0 | 39983 * | 36178 * | 31906 * | 27687 * | 24567 * | 21733 * | 18975 * | 16195 * | 13159 * | 10026 * |
| -17.0 | 36149 * | 33035 * | 29508 * | 26137 * | 23536 * | 21028 * | 18409 * | 15775 * | 12745 * | 9719 * |
| -19.5 | 31891 * | 29475 * | 26857 * | 24435 * | 22321 * | 20080 * | 17633 * | 15190 * | 12187 * | 9268 * |
| -22.5 | 27788 * | 26164 * | 24422 * | 22543 * | 20815 * | 18859 * | 16705 * | 14366 * | 11445 * | 8663 * |
| -25.5 | 24672 * | 23583 * | 22300 * | 20787 * | 19319 * | 17588 * | 15703 * | 13345 * | 10644 * | 7993 * |
| -29.0 | 21749 * | 21026 * | 20067 * | 18862 * | 17617 * | 16231 * | 14415 * | 12110 * | 9634 * | 7197 |
| -33.0 | 19013 * | 18457 * | 17703 * | 16764 * | 15741 * | 14446 * | 12649 * | 10648 * | 8391 * | 6221 |
| -37.5 | 16256 * | 15820 * | 15215 * | 14391 * | 13413 * | 12175 * | 10691 * | 8912 * | 6949 | 5123 |
| -42.5 | 13139 * | 12719 * | 12194 * | 11467 * | 10664 * | 9659 * | 8394 * | 6927 | 5333 | 3782 |
| -47.5 | 10030 * | 9709 * | 9268 * | 8677 * | 8014 * | 7193 | 6183 | 5088 | 3763 | 2602 |
| -55.0 | 5759 | 5558 | 5276 | 4896 | 4466 | 3909 | 3262 | 2551 | 1937 | 1561 |
| -65.0 | 1801 | 1753 | 1685 | 1593 | 1508 | 1408 | 1293 | 1153 | 998 | 842 |
| -75.0 | 660 | 648 | 633 | 611 | 586 | 553 | 510 | 464 | 408 | 349 |
| -85.0 | 103 | 101 | 99 | 95 | 92 | 88 | 83 | 77 | 69 | 60 |
| -90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 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 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 44 | 28 | 18 | 6 | 0 |
| 75.0 | 267 | 160 | 73 | 17 | 0 |
| 65.0 | 624 | 364 | 158 | 28 | 0 |
| 55.0 | 1102 | 621 | 263 | 44 | 0 |
| 47.5 | 1560 | 840 | 347 | 58 | 0 |
| 42.5 | 1947 | 994 | 407 | 67 | 0 |
| 37.5 | 2578 | 1148 | 461 | 76 | 0 |
| 33.0 | 3271 | 1291 | 506 | 82 | 0 |
| 29.0 | 3883 | 1412 | 548 | 88 | 0 |
| 25.5 | 4429 | 1516 | 580 | 92 | 0 |
| 22.5 | 4846 | 1599 | 605 | 95 | 0 |
| 19.5 | 5227 | 1685 | 627 | 98 | 0 |
| 17.0 | 5513 | 1747 | 643 | 100 | 0 |
| 15.0 | 5715 | 1791 | 654 | 101 | 0 |
| 13.0 | 5894 | 1830 | 664 | 102 | 0 |
| 11.0 | 6048 | 1864 | 672 | 106 | 0 |
| 9.0 | 6177 | 1891 | 678 | 106 | 0 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|------|------|-----|-----|---|
| 7.0 | 6281 | 1913 | 683 | 106 | 0 |
| 5.0 | 6363 | 1929 | 691 | 106 | 0 |
| 3.0 | 6449 | 1946 | 691 | 106 | 0 |
| 1.0 | 6453 | 1945 | 690 | 106 | 0 |
| 0.0 | 6455 | 1945 | 690 | 106 | 0 |
| -1.0 | 6453 | 1945 | 690 | 106 | 0 |
| -3.0 | 6449 | 1946 | 691 | 106 | 0 |
| -5.0 | 6363 | 1929 | 691 | 106 | 0 |
| -7.0 | 6281 | 1913 | 683 | 106 | 0 |
| -9.0 | 6177 | 1891 | 678 | 106 | 0 |
| -11.0 | 6048 | 1864 | 672 | 106 | 0 |
| -13.0 | 5894 | 1830 | 664 | 102 | 0 |
| -15.0 | 5715 | 1791 | 654 | 101 | 0 |
| -17.0 | 5513 | 1747 | 643 | 100 | 0 |
| -19.5 | 5227 | 1685 | 627 | 98 | 0 |
| -22.5 | 4846 | 1599 | 605 | 95 | 0 |
| -25.5 | 4429 | 1516 | 580 | 92 | 0 |
| -29.0 | 3883 | 1412 | 548 | 88 | 0 |
| -33.0 | 3271 | 1291 | 506 | 82 | 0 |
| -37.5 | 2578 | 1148 | 461 | 76 | 0 |
| -42.5 | 1947 | 994 | 407 | 67 | 0 |
| -47.5 | 1560 | 840 | 347 | 58 | 0 |
| -55.0 | 1102 | 621 | 263 | 44 | 0 |
| -65.0 | 624 | 364 | 158 | 28 | 0 |
| -75.0 | 267 | 160 | 73 | 17 | 0 |
| -85.0 | 44 | 28 | 18 | 6 | 0 |
| -90.0 | 0 | 0 | 0 | 0 | 0 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 33830.33

Total Field Lumens (one side of beam only) = 30694.16

* 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 | 0.08 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.18 |
| 75 | 1.23 | 2.45 | 2.44 | 2.42 | 2.39 | 2.36 | 2.32 | 2.27 | 2.21 | 2.68 |
| 65 | 4.07 | 8.13 | 8.08 | 7.98 | 7.86 | 7.72 | 7.55 | 7.35 | 7.12 | 8.53 |
| 55 | 12.91 | 25.77 | 25.54 | 25.15 | 24.71 | 24.15 | 23.46 | 22.67 | 21.77 | 25.80 |
| 47.5 | 20.20 * | 40.40 * | 40.10 * | 39.50 * | 38.78 * | 37.87 * | 36.78 * | 35.52 * | 34.10 * | 40.42 * |
| 42.5 | 19.63 * | 39.34 * | 39.11 * | 38.54 * | 37.86 * | 37.00 * | 35.95 * | 34.73 * | 33.38 * | 39.68 * |
| 37.5 | 24.66 * | 49.38 * | 49.11 * | 48.48 * | 47.68 * | 46.66 * | 45.43 * | 44.01 * | 42.41 * | 50.58 * |
| 33 | 26.73 * | 53.39 * | 53.04 * | 52.37 * | 51.47 * | 50.34 * | 49.00 * | 47.49 * | 45.82 * | 54.67 * |
| 29 | 28.16 * | 56.15 * | 55.63 * | 54.75 * | 53.62 * | 52.29 * | 50.73 * | 48.93 * | 46.99 * | 55.87 * |
| 25.5 | 29.38 * | 58.40 * | 57.64 * | 56.47 * | 54.93 * | 53.10 * | 51.12 * | 48.96 * | 46.64 * | 55.04 * |
| 22.5 | 30.43 * | 60.27 * | 59.23 * | 57.75 * | 55.71 * | 53.15 * | 50.44 * | 47.72 * | 44.89 * | 52.32 * |
| 19.5 | 36.91 * | 73.13 * | 71.64 * | 69.48 * | 66.63 * | 62.98 * | 58.94 * | 54.81 * | 50.65 * | 57.99 * |
| 17 | 36.19 * | 71.83 * | 70.41 * | 68.14 * | 65.15 * | 61.45 * | 57.16 * | 52.48 * | 47.78 * | 53.73 * |
| 15 | 32.39 * | 64.37 * | 63.15 * | 61.15 * | 58.48 * | 55.25 * | 51.41 * | 47.07 * | 42.56 * | 47.23 * |
| 13 | 35.18 * | 69.94 * | 68.60 * | 66.52 * | 63.78 * | 60.36 * | 56.28 * | 51.65 * | 46.65 * | 51.36 * |
| 11 | 37.63 * | 74.84 * | 73.47 * | 71.38 * | 68.57 * | 64.98 * | 60.70 * | 55.83 * | 50.54 * | 55.43 * |
| 9 | 39.74 * | 79.08 * | 77.73 * | 75.59 * | 72.72 * | 69.00 * | 64.50 * | 59.46 * | 53.96 * | 59.16 * |
| 7 | 41.51 * | 82.60 * | 81.24 * | 79.10 * | 76.13 * | 72.24 * | 67.66 * | 62.50 * | 56.80 * | 62.42 * |
| 5 | 42.95 * | 85.41 * | 84.02 * | 81.84 * | 78.73 * | 74.79 * | 70.18 * | 64.91 * | 59.07 * | 65.04 * |
| 3 | 43.92 * | 87.36 * | 86.03 * | 83.84 * | 80.71 * | 76.76 * | 72.07 * | 66.72 * | 60.78 * | 66.96 * |
| 1 | 44.36 * | 88.37 * | 87.29 * | 85.17 * | 81.98 * | 77.93 * | 73.17 * | 67.82 * | 61.85 * | 68.14 * |
| 0 | 22.22 * | 44.34 * | 43.88 * | 42.82 * | 41.18 * | 39.11 * | 36.72 * | 34.06 * | 31.10 * | 34.31 * |
| -1 | 22.22 * | 44.34 * | 43.88 * | 42.82 * | 41.18 * | 39.11 * | 36.72 * | 34.06 * | 31.10 * | 34.31 * |
| | 44.36 * | 88.37 * | 87.29 * | 85.17 * | 81.98 * | 77.93 * | 73.17 * | 67.82 * | 61.85 * | 68.14 * |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -3 | 43.92 * | 87.36 * | 86.03 * | 83.84 * | 80.71 * | 76.76 * | 72.07 * | 66.72 * | 60.78 * | 66.96 * |
| -5 | 42.95 * | 85.41 * | 84.02 * | 81.84 * | 78.73 * | 74.79 * | 70.18 * | 64.91 * | 59.07 * | 65.04 * |
| -7 | 41.51 * | 82.60 * | 81.24 * | 79.10 * | 76.13 * | 72.24 * | 67.66 * | 62.50 * | 56.80 * | 62.42 * |
| -9 | 39.74 * | 79.08 * | 77.73 * | 75.59 * | 72.72 * | 69.00 * | 64.50 * | 59.46 * | 53.96 * | 59.16 * |
| -11 | 37.63 * | 74.84 * | 73.47 * | 71.38 * | 68.57 * | 64.98 * | 60.70 * | 55.83 * | 50.54 * | 55.43 * |
| -13 | 35.18 * | 69.94 * | 68.60 * | 66.52 * | 63.78 * | 60.36 * | 56.28 * | 51.65 * | 46.65 * | 51.36 * |
| -15 | 32.39 * | 64.37 * | 63.15 * | 61.15 * | 58.48 * | 55.25 * | 51.41 * | 47.07 * | 42.56 * | 47.23 * |
| -17 | 36.19 * | 71.83 * | 70.41 * | 68.14 * | 65.15 * | 61.45 * | 57.16 * | 52.48 * | 47.78 * | 53.73 * |
| -19.5 | 36.91 * | 73.13 * | 71.64 * | 69.48 * | 66.63 * | 62.98 * | 58.94 * | 54.81 * | 50.65 * | 57.99 * |
| -22.5 | 30.43 * | 60.27 * | 59.23 * | 57.75 * | 55.71 * | 53.15 * | 50.44 * | 47.72 * | 44.89 * | 52.32 * |
| -25.5 | 29.38 * | 58.40 * | 57.64 * | 56.47 * | 54.93 * | 53.10 * | 51.12 * | 48.96 * | 46.64 * | 55.04 * |
| -29 | 28.16 * | 56.15 * | 55.63 * | 54.75 * | 53.62 * | 52.29 * | 50.73 * | 48.93 * | 46.99 * | 55.87 * |
| -33 | 26.73 * | 53.39 * | 53.04 * | 52.37 * | 51.47 * | 50.34 * | 49.00 * | 47.49 * | 45.82 * | 54.67 * |
| -37.5 | 24.66 * | 49.38 * | 49.11 * | 48.48 * | 47.68 * | 46.66 * | 45.43 * | 44.01 * | 42.41 * | 50.58 * |
| -42.5 | 19.63 * | 39.34 * | 39.11 * | 38.54 * | 37.86 * | 37.00 * | 35.95 * | 34.73 * | 33.38 * | 39.68 * |
| -47.5 | 20.20 * | 40.40 * | 40.10 * | 39.50 * | 38.78 * | 37.87 * | 36.78 * | 35.52 * | 34.10 * | 40.42 * |
| -55 | 12.91 | 25.77 | 25.54 | 25.15 | 24.71 | 24.15 | 23.46 | 22.67 | 21.77 | 25.80 |
| -65 | 4.07 | 8.13 | 8.08 | 7.98 | 7.86 | 7.72 | 7.55 | 7.35 | 7.12 | 8.53 |
| -75 | 1.23 | 2.45 | 2.44 | 2.42 | 2.39 | 2.36 | 2.32 | 2.27 | 2.21 | 2.68 |
| -85 | 0.08 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.18 |
| -90 | | | | | | | | | | |
| Total | 1220.99 | 2430.18 | 2395.06 | 2337.26 | 2258.45 | 2159.27 | 2043.46 | 1914.22 | 1774.46 | 2015.08 |

Vert. Horizontal Angles

| Angles | 19.5 | 22.5 | 25.5 | 29 | 33 | 37.5 | 42.5 | 47.5 | 55 | 65 |
|---------------|-------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|
| 90 | 0.21 | 0.20 | 0.21 | 0.22 | 0.22 | 0.21 | 0.17 | 0.19 | 0.14 | 0.06 |
| 85 | 3.07 | 2.89 | 3.13 | 3.22 | 3.17 | 2.97 | 2.38 | 2.57 | 1.90 | 0.73 |
| 75 | 9.64 | 8.97 | 9.61 | 9.83 | 9.57 | 8.81 | 6.99 | 7.44 | 5.38 | 1.96 |
| 65 | 28.68 | 26.01 | 26.75 | 25.77 | 23.11 | 19.36 | 14.37 | 14.75 | 10.31 | 3.66 |
| 55 | 44.97 | 40.78 | 41.90 | 40.23 | 35.85 | 29.17 | 19.91 | 18.29 | 11.76 | 4.04 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|------|--|
| 47.5 | | | | | | | | | | | |
| | 44.37 * | 40.51 * | 42.09 * | 41.02 * | 37.20 | 30.78 | 20.83 | 17.67 | 10.16 | 3.37 | |
| 42.5 | | | | | | | | | | | |
| | 56.80 * | 52.10 * | 54.39 * | 53.41 * | 48.86 * | 41.00 | 28.51 | 23.99 | 12.68 | 3.91 | |
| 37.5 | | | | | | | | | | | |
| | 61.49 * | 56.64 * | 59.46 * | 58.69 * | 54.01 * | 45.80 * | 32.32 | 27.64 | 14.18 | 3.99 | |
| 33 | | | | | | | | | | | |
| | 62.61 * | 57.58 * | 60.69 * | 60.29 * | 55.76 * | 47.57 * | 33.85 * | 29.40 | 14.99 | 3.91 | |
| 29 | | | | | | | | | | | |
| | 61.22 * | 55.94 * | 58.67 * | 58.42 * | 54.42 * | 46.67 * | 33.41 * | 29.39 | 14.96 | 3.69 | |
| 25.5 | | | | | | | | | | | |
| | 57.61 * | 52.25 * | 54.43 * | 53.92 * | 50.46 * | 43.56 * | 31.29 * | 27.79 | 14.14 | 3.36 | |
| 22.5 | | | | | | | | | | | |
| | 62.86 * | 56.42 * | 58.34 * | 57.39 * | 53.63 * | 46.53 * | 33.56 * | 30.01 | 15.24 | 3.52 | |
| 19.5 | | | | | | | | | | | |
| | 57.01 * | 50.31 * | 51.51 * | 50.35 * | 46.87 * | 40.75 * | 29.55 * | 26.55 * | 13.47 | 3.06 | |
| 17 | | | | | | | | | | | |
| | 49.15 * | 42.54 * | 43.06 * | 41.84 * | 38.81 * | 33.75 * | 24.57 * | 22.13 * | 11.23 | 2.52 | |
| 15 | | | | | | | | | | | |
| | 52.59 * | 44.69 * | 44.67 * | 43.12 * | 39.85 * | 34.67 * | 25.30 * | 22.82 * | 11.58 | 2.57 | |
| 13 | | | | | | | | | | | |
| | 55.95 * | 46.72 * | 46.15 * | 44.27 * | 40.78 * | 35.48 * | 25.92 * | 23.41 * | 11.89 | 2.62 | |
| 11 | | | | | | | | | | | |
| | 59.26 * | 48.75 * | 47.51 * | 45.28 * | 41.60 * | 36.16 * | 26.45 * | 23.92 * | 12.15 | 2.66 | |
| 9 | | | | | | | | | | | |
| | 62.36 * | 50.72 * | 48.80 * | 46.15 * | 42.28 * | 36.73 * | 26.88 * | 24.34 * | 12.37 | 2.69 | |
| 7 | | | | | | | | | | | |
| | 64.89 * | 52.37 * | 49.93 * | 46.91 * | 42.82 * | 37.17 * | 27.22 * | 24.67 * | 12.54 | 2.71 | |
| 5 | | | | | | | | | | | |
| | 66.75 * | 53.64 * | 50.83 * | 47.48 * | 43.21 * | 37.51 * | 27.51 * | 24.96 * | 12.69 | 2.74 | |
| 3 | | | | | | | | | | | |
| | 67.95 * | 54.50 * | 51.42 * | 47.89 * | 43.47 * | 37.69 * | 27.64 * | 25.10 * | 12.77 | 2.74 | |
| 1 | | | | | | | | | | | |
| | 34.24 * | 27.44 * | 25.85 * | 24.05 * | 21.80 * | 18.86 * | 13.81 * | 12.55 * | 6.39 | 1.37 | |
| 0 | | | | | | | | | | | |
| | 34.24 * | 27.44 * | 25.85 * | 24.05 * | 21.80 * | 18.86 * | 13.81 * | 12.55 * | 6.39 | 1.37 | |
| -1 | | | | | | | | | | | |
| | 67.95 * | 54.50 * | 51.42 * | 47.89 * | 43.47 * | 37.69 * | 27.64 * | 25.10 * | 12.77 | 2.74 | |
| -3 | | | | | | | | | | | |
| | 66.75 * | 53.64 * | 50.83 * | 47.48 * | 43.21 * | 37.51 * | 27.51 * | 24.96 * | 12.69 | 2.74 | |
| -5 | | | | | | | | | | | |
| | 64.89 * | 52.37 * | 49.93 * | 46.91 * | 42.82 * | 37.17 * | 27.22 * | 24.67 * | 12.54 | 2.71 | |
| -7 | | | | | | | | | | | |
| | 62.36 * | 50.72 * | 48.80 * | 46.15 * | 42.28 * | 36.73 * | 26.88 * | 24.34 * | 12.37 | 2.69 | |
| -9 | | | | | | | | | | | |
| | 59.26 * | 48.75 * | 47.51 * | 45.28 * | 41.60 * | 36.16 * | 26.45 * | 23.92 * | 12.15 | 2.66 | |
| -11 | | | | | | | | | | | |
| | 55.95 * | 46.72 * | 46.15 * | 44.27 * | 40.78 * | 35.48 * | 25.92 * | 23.41 * | 11.89 | 2.62 | |
| -13 | | | | | | | | | | | |
| | 52.59 * | 44.69 * | 44.67 * | 43.12 * | 39.85 * | 34.67 * | 25.30 * | 22.82 * | 11.58 | 2.57 | |
| -15 | | | | | | | | | | | |
| | 49.15 * | 42.54 * | 43.06 * | 41.84 * | 38.81 * | 33.75 * | 24.57 * | 22.13 * | 11.23 | 2.52 | |
| -17 | | | | | | | | | | | |
| | 57.01 * | 50.31 * | 51.51 * | 50.35 * | 46.87 * | 40.75 * | 29.55 * | 26.55 * | 13.47 | 3.06 | |
| -19.5 | | | | | | | | | | | |
| | 62.86 * | 56.42 * | 58.34 * | 57.39 * | 53.63 * | 46.53 * | 33.56 * | 30.01 | 15.24 | 3.52 | |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| -22.5 | 57.61 * | 52.25 * | 54.43 * | 53.92 * | 50.46 * | 43.56 * | 31.29 * | 27.79 | 14.14 | 3.36 |
| -25.5 | 61.22 * | 55.94 * | 58.67 * | 58.42 * | 54.42 * | 46.67 * | 33.41 * | 29.39 | 14.96 | 3.69 |
| -29 | 62.61 * | 57.58 * | 60.69 * | 60.29 * | 55.76 * | 47.57 * | 33.85 * | 29.40 | 14.99 | 3.91 |
| -33 | 61.49 * | 56.64 * | 59.46 * | 58.69 * | 54.01 * | 45.80 * | 32.32 | 27.64 | 14.18 | 3.99 |
| -37.5 | 56.80 * | 52.10 * | 54.39 * | 53.41 * | 48.86 * | 41.00 | 28.51 | 23.99 | 12.68 | 3.91 |
| -42.5 | 44.37 * | 40.51 * | 42.09 * | 41.02 * | 37.20 | 30.78 | 20.83 | 17.67 | 10.16 | 3.37 |
| -47.5 | 44.97 | 40.78 | 41.90 | 40.23 | 35.85 | 29.17 | 19.91 | 18.29 | 11.76 | 4.04 |
| -55 | 28.68 | 26.01 | 26.75 | 25.77 | 23.11 | 19.36 | 14.37 | 14.75 | 10.31 | 3.66 |
| -65 | 9.64 | 8.97 | 9.61 | 9.83 | 9.57 | 8.81 | 6.99 | 7.44 | 5.38 | 1.96 |
| -75 | 3.07 | 2.89 | 3.13 | 3.22 | 3.17 | 2.97 | 2.38 | 2.57 | 1.90 | 0.73 |
| -85 | 0.21 | 0.20 | 0.21 | 0.22 | 0.22 | 0.21 | 0.17 | 0.19 | 0.14 | 0.06 |
| -90 | | | | | | | | | | |
| Total | 2127.41 | 1843.92 | 1858.8 | 1799.55 | 1655.51 | 1422.41 | 1024.93 | 919.13 | 485.85 | 123.73 |

| Vert. Angles | Horizontal Angles | | | |
|-----------------|-------------------|-----------|-----------|--------------|
| | <u>75</u> | <u>85</u> | <u>90</u> | <u>Total</u> |
| 90 | | | | |
| | 0.02 | 0.00 | | 3.38 |
| 85 | | | | |
| | 0.15 | 0.00 | | 48.96 |
| 75 | | | | |
| | 0.36 | 0.01 | | 152.96 |
| 65 | | | | |
| | 0.65 | 0.01 | | 425.37 |
| 55 | | | | |
| | 0.71 | 0.01 | | 651.29 |
| 47.5 | | | | |
| | 0.58 | 0.01 | | 643.79 |
| 42.5 | | | | |
| | 0.67 | 0.01 | | 824.72 |
| 37.5 | | | | |
| | 0.67 | 0.01 | | 899.22 |
| 33 | | | | |
| | 0.65 | 0.01 | | 930.43 |
| 29 | | | | |
| | 0.60 | 0.01 | | 929.10 |
| 25.5 | | | | |
| | 0.54 | 0.01 | | 901.28 |
| 22.5 | | | | |
| | 0.56 | 0.01 | | 1021.23 |
| 19.5 | | | | |
| | 0.48 | 0.01 | | 954.24 |
| 17 | | | | |
| | 0.40 | 0.01 | | 833.07 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

LUMENS TABULATION - (Cont.)

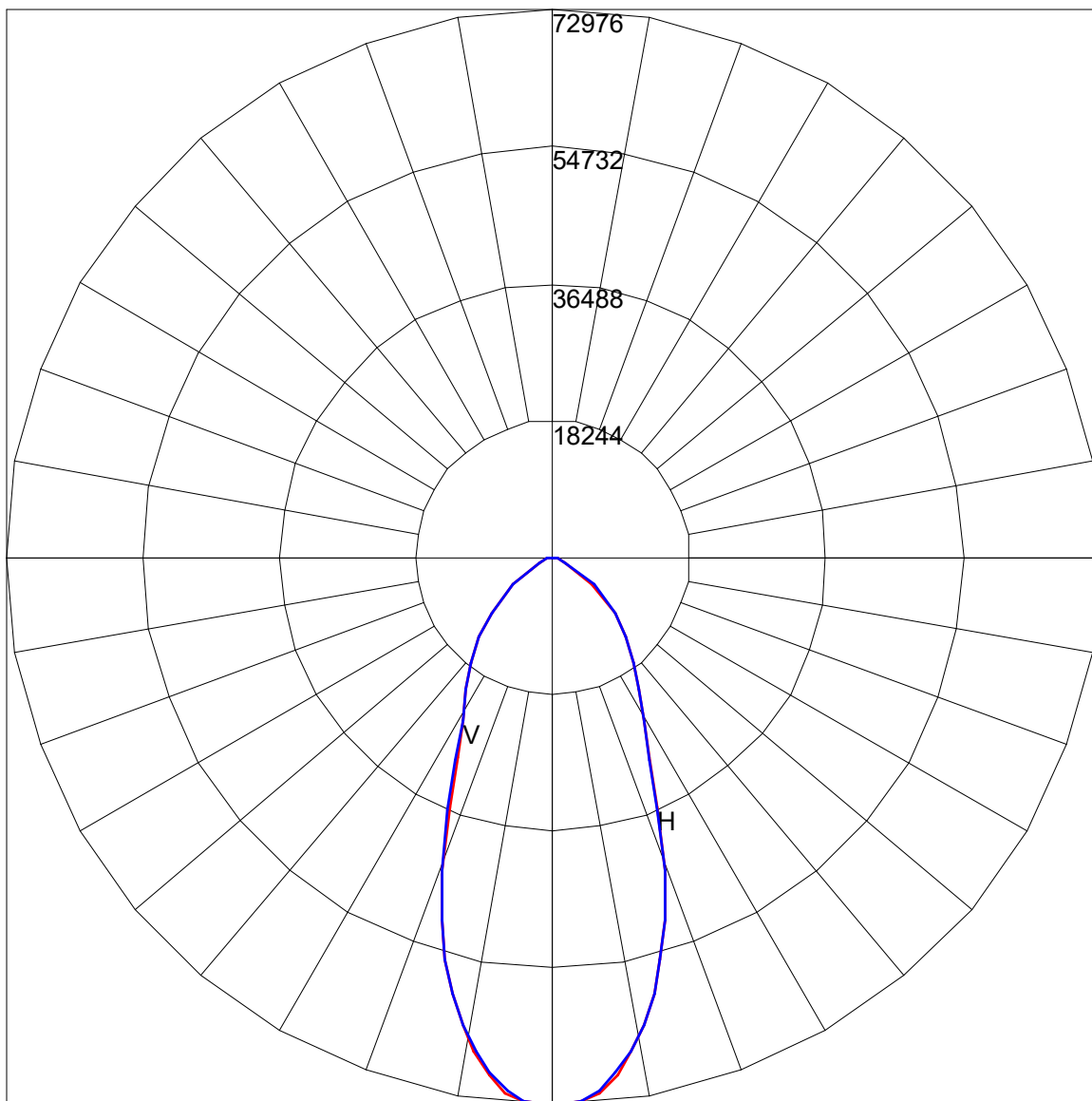
| | | | |
|--------------|------|------|---------|
| 15 | 0.40 | 0.01 | 892.61 |
| 13 | 0.41 | 0.01 | 947.00 |
| 11 | 0.41 | 0.01 | 995.09 |
| 9 | 0.42 | 0.01 | 1035.94 |
| 7 | 0.42 | 0.01 | 1068.58 |
| 5 | 0.42 | 0.01 | 1092.89 |
| 3 | 0.42 | 0.01 | 1107.69 |
| 1 | 0.21 | 0.00 | 556.32 |
| 0 | 0.21 | 0.00 | 556.32 |
| -1 | 0.42 | 0.01 | 1107.69 |
| -3 | 0.42 | 0.01 | 1092.89 |
| -5 | 0.42 | 0.01 | 1068.58 |
| -7 | 0.42 | 0.01 | 1035.94 |
| -9 | 0.41 | 0.01 | 995.09 |
| -11 | 0.41 | 0.01 | 947.00 |
| -13 | 0.40 | 0.01 | 892.61 |
| -15 | 0.40 | 0.01 | 833.07 |
| -17 | 0.48 | 0.01 | 954.24 |
| -19.5 | 0.56 | 0.01 | 1021.23 |
| -22.5 | 0.54 | 0.01 | 901.28 |
| -25.5 | 0.60 | 0.01 | 929.10 |
| -29 | 0.65 | 0.01 | 930.43 |
| -33 | 0.67 | 0.01 | 899.22 |
| -37.5 | 0.67 | 0.01 | 824.72 |
| -42.5 | 0.58 | 0.01 | 643.79 |
| -47.5 | 0.71 | 0.01 | 651.29 |
| -55 | 0.65 | 0.01 | 425.37 |
| -65 | 0.36 | 0.01 | 152.96 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40.IES

LUMENS TABULATION - (Cont.)

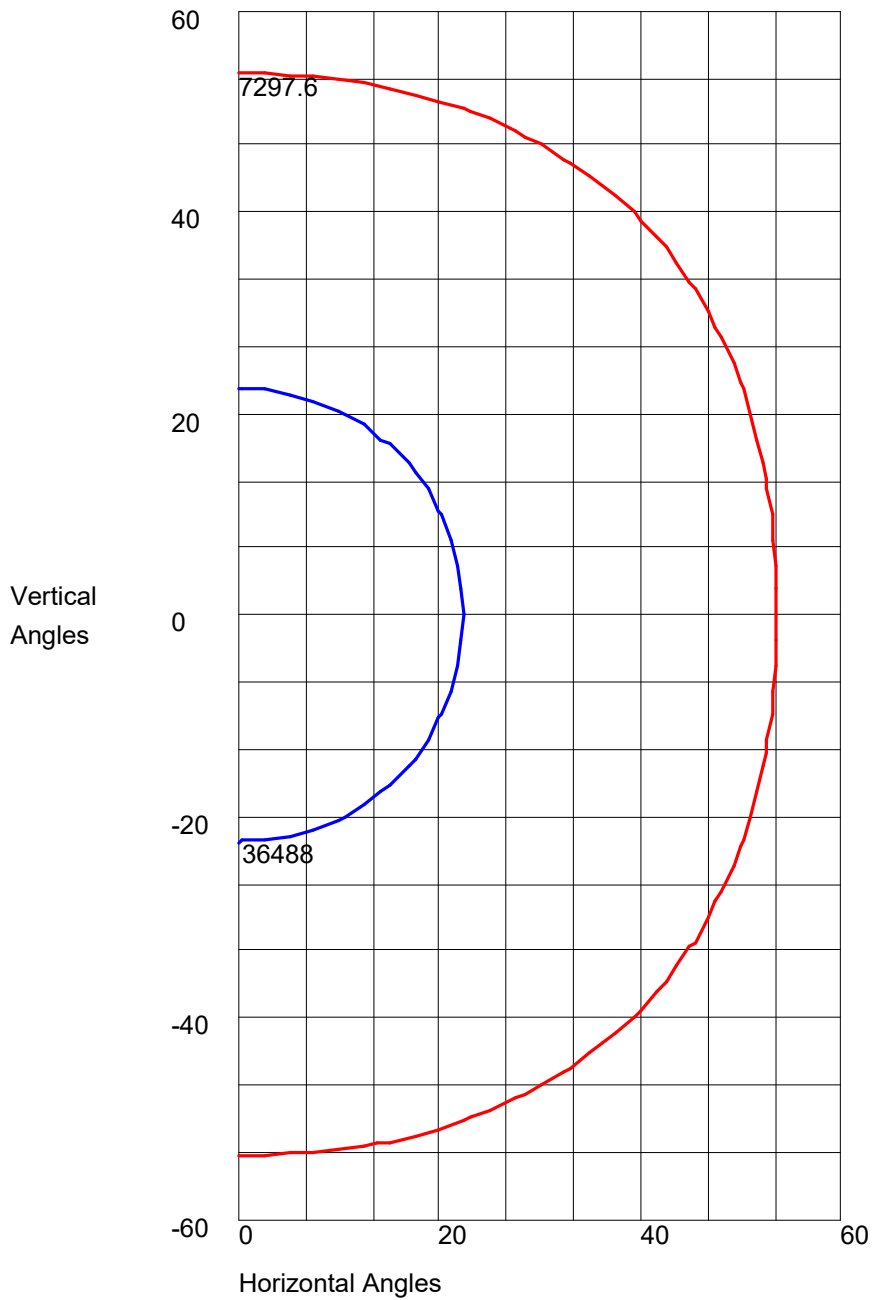
| | | | |
|-------|-------|------|----------|
| -75 | 0.15 | 0.00 | 48.96 |
| -85 | 0.02 | 0.00 | 3.38 |
| -90 | | | |
| Total | 20.31 | 0.36 | 33830.33 |

AXIAL CANDELA DISPLAY



Maximum Candela = 72976 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 72976 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 36488
10% Maximum Candela = 7297.6