



IES ROAD REPORT

PHOTOMETRIC FILENAME : SSW-LED-01L-FT-UNV-DIM-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11549

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 5/7/2020

[TEST DATE] 01/29/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] SSW-LED-01L-FT-UNV-DIM-50

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[OTHER] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

| | |
|---|------------------------------|
| IES Classification | Type IV |
| Longitudinal Classification | Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1548 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 129 |
| Total Luminaire Watts | 12 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 1126 |
| Maximum Candela Angle | 32.5H 70V |
| Maximum Candela (<90 Degrees Vertical) | 1126 |
| Maximum Candela Angle (<90 Degrees Vertical) | 32.5H 70V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 211 (13.6% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 141.3 | N.A. | 9.1 |
| FM - Front-Medium (30-60) | 595.3 | N.A. | 38.5 |
| FH - Front-High (60-80) | 548.5 | N.A. | 35.4 |
| FVH - Front-Very High (80-90) | 13.4 | N.A. | 0.9 |
| BL - Back-Low (0-30) | 50.2 | N.A. | 3.2 |
| BM - Back-Medium (30-60) | 109.7 | N.A. | 7.1 |
| BH - Back-High (60-80) | 86.6 | N.A. | 5.6 |
| BVH - Back-Very High (80-90) | 2.8 | N.A. | 0.2 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 1547.8 | N.A. | 100.0 |
| BUG Rating | B0-U0-G1 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | <u>0.0</u> | <u>5.0</u> | <u>15.0</u> | <u>25.0</u> | <u>32.5</u> | <u>35.0</u> | <u>45.0</u> | <u>55.0</u> | <u>65.0</u> | <u>75.0</u> |
| 0.0 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 |
| 2.5 | 226 | 225 | 225 | 223 | 222 | 222 | 220 | 219 | 216 | 213 |
| 5.0 | 253 | 251 | 251 | 247 | 245 | 244 | 239 | 235 | 229 | 222 |
| 7.5 | 278 | 276 | 275 | 270 | 266 | 264 | 259 | 250 | 241 | 229 |
| 10.0 | 303 | 301 | 299 | 293 | 288 | 286 | 278 | 266 | 253 | 237 |
| 12.5 | 328 | 325 | 323 | 315 | 310 | 306 | 296 | 281 | 264 | 245 |
| 15.0 | 354 | 352 | 348 | 338 | 331 | 327 | 313 | 296 | 276 | 254 |
| 17.5 | 380 | 379 | 374 | 362 | 354 | 349 | 332 | 311 | 288 | 262 |
| 20.0 | 405 | 403 | 399 | 386 | 376 | 371 | 351 | 327 | 300 | 270 |
| 22.5 | 428 | 426 | 422 | 409 | 396 | 392 | 369 | 342 | 312 | 279 |
| 25.0 | 449 | 447 | 444 | 429 | 416 | 411 | 388 | 358 | 324 | 288 |
| 27.5 | 471 | 469 | 464 | 449 | 435 | 429 | 404 | 373 | 336 | 297 |
| 30.0 | 492 | 490 | 485 | 468 | 453 | 447 | 421 | 387 | 348 | 306 |
| 32.5 | 514 | 510 | 504 | 486 | 469 | 463 | 435 | 400 | 359 | 316 |
| 35.0 | 534 | 530 | 523 | 503 | 487 | 479 | 449 | 412 | 371 | 325 |
| 37.5 | 557 | 553 | 544 | 522 | 503 | 495 | 463 | 424 | 382 | 334 |
| 40.0 | 589 | 583 | 572 | 544 | 522 | 513 | 478 | 438 | 395 | 345 |
| 42.5 | 630 | 625 | 610 | 577 | 549 | 537 | 496 | 454 | 409 | 357 |
| 45.0 | 652 | 648 | 637 | 609 | 583 | 568 | 522 | 472 | 424 | 370 |
| 47.5 | 670 | 666 | 654 | 623 | 596 | 586 | 540 | 486 | 436 | 384 |
| 50.0 | 697 | 692 | 678 | 644 | 611 | 598 | 549 | 497 | 449 | 399 |
| 52.5 | 728 | 723 | 710 | 671 | 634 | 620 | 564 | 510 | 464 | 418 |
| 55.0 | 764 | 761 | 746 | 706 | 664 | 649 | 585 | 527 | 483 | 440 |
| 57.5 | 810 | 808 | 792 | 748 | 703 | 687 | 614 | 548 | 503 | 466 |
| 60.0 | 878 | 870 | 854 | 806 | 758 | 736 | 652 | 575 | 526 | 489 |
| 62.5 | 946 | 940 | 933 | 884 | 830 | 806 | 710 | 610 | 542 | 504 |
| 65.0 | 980 | 983 | 1006 | 982 | 932 | 899 | 782 | 640 | 541 | 496 |
| 67.5 | 905 | 917 | 1007 | 1069 | 1047 | 1018 | 859 | 650 | 494 | 441 |
| 70.0 | 624 | 643 | 817 | 1052 | 1126 | 1117 | 914 | 603 | 385 | 332 |
| 72.5 | 324 | 339 | 470 | 793 | 1055 | 1083 | 883 | 458 | 239 | 206 |
| 75.0 | 168 | 170 | 244 | 488 | 769 | 824 | 678 | 256 | 123 | 113 |
| 77.5 | 105 | 105 | 143 | 287 | 442 | 474 | 342 | 110 | 61 | 55 |
| 80.0 | 58 | 63 | 87 | 155 | 204 | 211 | 136 | 45 | 33 | 33 |
| 82.5 | 29 | 31 | 44 | 69 | 80 | 83 | 50 | 22 | 18 | 19 |
| 85.0 | 11 | 11 | 17 | 27 | 30 | 30 | 14 | 7 | 6 | 7 |
| 87.5 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | <u>85.0</u> | <u>90.0</u> | <u>95.0</u> | <u>105.0</u> | <u>115.0</u> | <u>125.0</u> | <u>135.0</u> | <u>145.0</u> | <u>155.0</u> | <u>165.0</u> |
| 0.0 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 |
| 2.5 | 210 | 208 | 207 | 204 | 202 | 199 | 197 | 194 | 193 | 191 |
| 5.0 | 213 | 209 | 205 | 197 | 188 | 180 | 173 | 167 | 163 | 159 |
| 7.5 | 216 | 209 | 202 | 189 | 174 | 161 | 151 | 143 | 137 | 132 |
| 10.0 | 220 | 211 | 201 | 181 | 162 | 145 | 133 | 124 | 118 | 113 |
| 12.5 | 224 | 212 | 199 | 173 | 150 | 132 | 118 | 107 | 101 | 99 |
| 15.0 | 227 | 213 | 198 | 166 | 139 | 120 | 104 | 98 | 95 | 93 |
| 17.5 | 231 | 215 | 197 | 160 | 130 | 109 | 97 | 93 | 91 | 89 |
| 20.0 | 236 | 217 | 196 | 154 | 122 | 100 | 92 | 89 | 87 | 87 |
| 22.5 | 241 | 219 | 196 | 149 | 114 | 95 | 89 | 86 | 85 | 84 |
| 25.0 | 247 | 222 | 197 | 145 | 108 | 90 | 86 | 83 | 83 | 82 |
| 27.5 | 253 | 226 | 198 | 141 | 102 | 87 | 83 | 81 | 81 | 81 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|-----|-----|-----|-----|----|----|----|----|----|----|
| 30.0 | 259 | 230 | 198 | 137 | 98 | 84 | 79 | 78 | 79 | 80 |
| 32.5 | 265 | 234 | 200 | 134 | 93 | 80 | 76 | 75 | 77 | 79 |
| 35.0 | 272 | 239 | 202 | 131 | 89 | 77 | 73 | 73 | 76 | 81 |
| 37.5 | 280 | 244 | 205 | 129 | 85 | 74 | 70 | 70 | 75 | 82 |
| 40.0 | 289 | 251 | 209 | 127 | 81 | 70 | 67 | 69 | 74 | 82 |
| 42.5 | 298 | 259 | 215 | 126 | 77 | 66 | 65 | 66 | 72 | 80 |
| 45.0 | 309 | 268 | 222 | 126 | 74 | 63 | 62 | 65 | 69 | 77 |
| 47.5 | 322 | 279 | 230 | 126 | 70 | 60 | 60 | 61 | 66 | 74 |
| 50.0 | 336 | 293 | 239 | 128 | 67 | 58 | 57 | 58 | 63 | 71 |
| 52.5 | 355 | 310 | 253 | 130 | 64 | 55 | 55 | 55 | 60 | 67 |
| 55.0 | 379 | 331 | 271 | 135 | 61 | 52 | 52 | 52 | 57 | 64 |
| 57.5 | 406 | 357 | 294 | 143 | 59 | 50 | 49 | 49 | 53 | 61 |
| 60.0 | 433 | 386 | 322 | 159 | 59 | 47 | 46 | 46 | 50 | 59 |
| 62.5 | 456 | 412 | 350 | 181 | 61 | 44 | 43 | 43 | 47 | 58 |
| 65.0 | 460 | 425 | 373 | 207 | 72 | 42 | 40 | 40 | 45 | 66 |
| 67.5 | 421 | 406 | 369 | 226 | 92 | 41 | 37 | 38 | 44 | 97 |
| 70.0 | 338 | 341 | 327 | 215 | 96 | 42 | 36 | 36 | 48 | 88 |
| 72.5 | 219 | 238 | 246 | 165 | 74 | 40 | 33 | 33 | 44 | 63 |
| 75.0 | 124 | 136 | 138 | 100 | 49 | 33 | 29 | 32 | 37 | 47 |
| 77.5 | 62 | 64 | 63 | 52 | 33 | 25 | 23 | 29 | 29 | 26 |
| 80.0 | 33 | 32 | 28 | 24 | 20 | 17 | 16 | 22 | 18 | 6 |
| 82.5 | 19 | 18 | 14 | 11 | 10 | 9 | 9 | 14 | 11 | 3 |
| 85.0 | 8 | 7 | 5 | 3 | 3 | 3 | 3 | 5 | 2 | 1 |
| 87.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Horizontal Angles
Angles

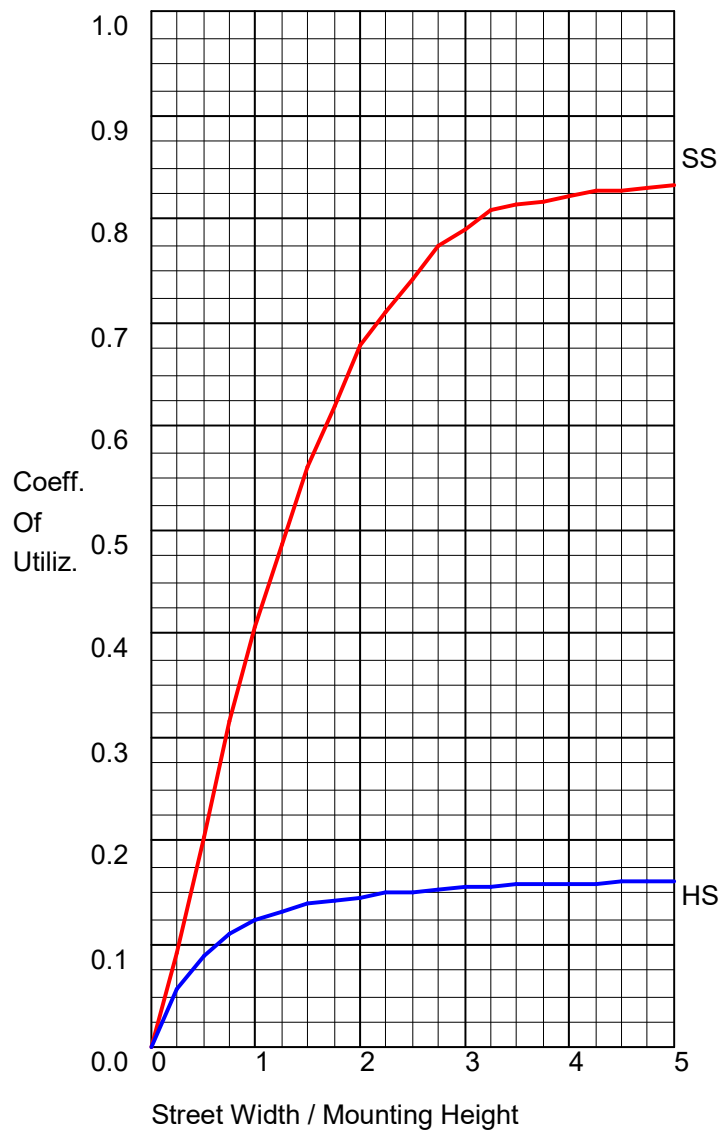
| | <u>175.0</u> | <u>180.0</u> |
|------|--------------|--------------|
| 0.0 | 207 | 207 |
| 2.5 | 190 | 189 |
| 5.0 | 158 | 156 |
| 7.5 | 131 | 129 |
| 10.0 | 110 | 109 |
| 12.5 | 97 | 97 |
| 15.0 | 92 | 92 |
| 17.5 | 89 | 89 |
| 20.0 | 86 | 86 |
| 22.5 | 84 | 84 |
| 25.0 | 83 | 83 |
| 27.5 | 82 | 81 |
| 30.0 | 81 | 81 |
| 32.5 | 82 | 82 |
| 35.0 | 85 | 85 |
| 37.5 | 87 | 88 |
| 40.0 | 88 | 88 |
| 42.5 | 85 | 86 |
| 45.0 | 83 | 84 |
| 47.5 | 80 | 81 |
| 50.0 | 78 | 79 |
| 52.5 | 74 | 75 |
| 55.0 | 71 | 71 |
| 57.5 | 68 | 69 |
| 60.0 | 69 | 70 |
| 62.5 | 73 | 76 |
| 65.0 | 120 | 131 |

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CANDELA TABULATION - (Cont.)

| | | |
|-------------|-----|-----|
| 67.5 | 140 | 143 |
| 70.0 | 105 | 106 |
| 72.5 | 76 | 77 |
| 75.0 | 59 | 60 |
| 77.5 | 31 | 33 |
| 80.0 | 0 | 0 |
| 82.5 | 0 | 0 |
| 85.0 | 0 | 0 |
| 87.5 | 0 | 0 |
| 90.0 | 0 | 0 |

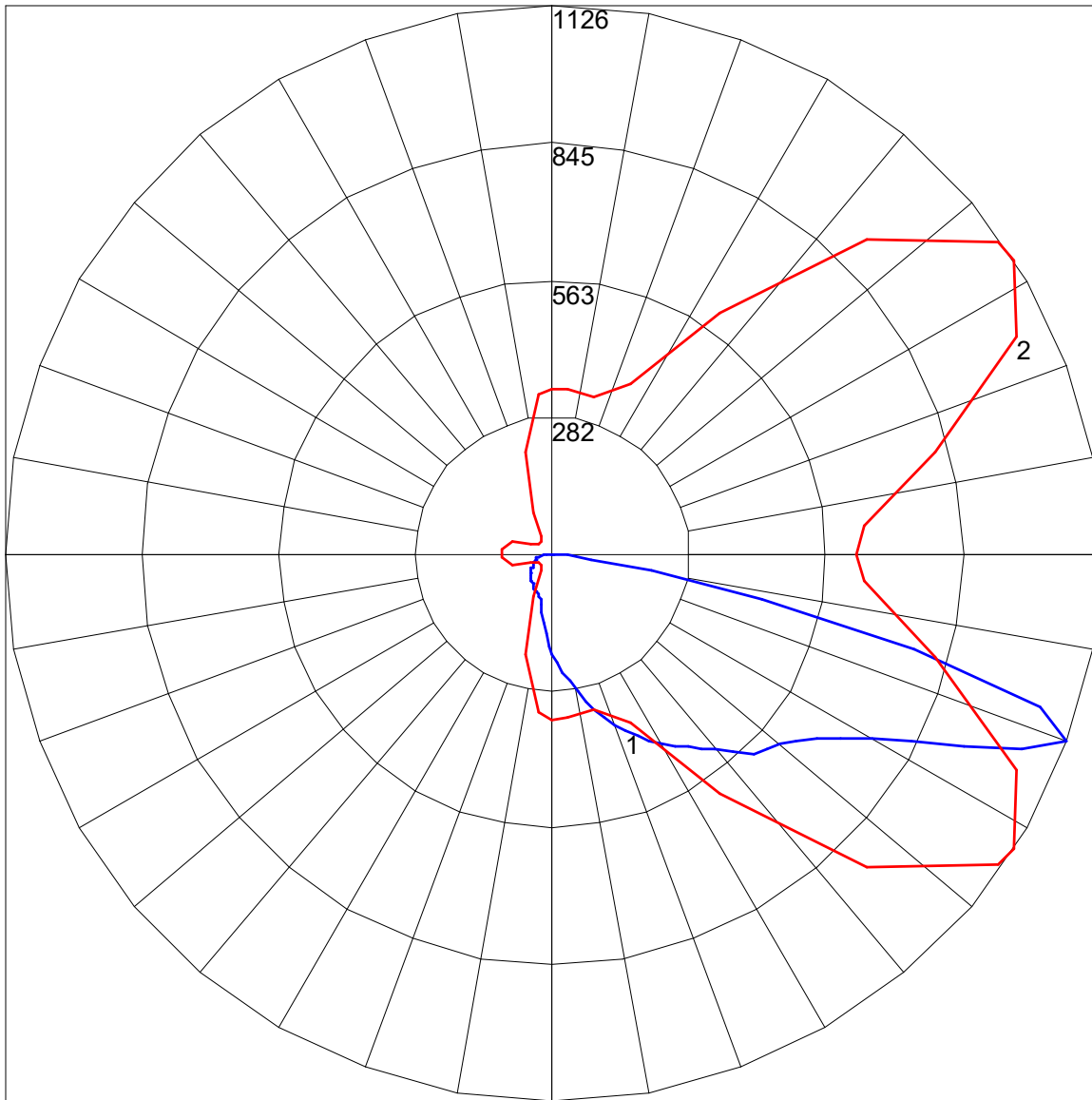
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

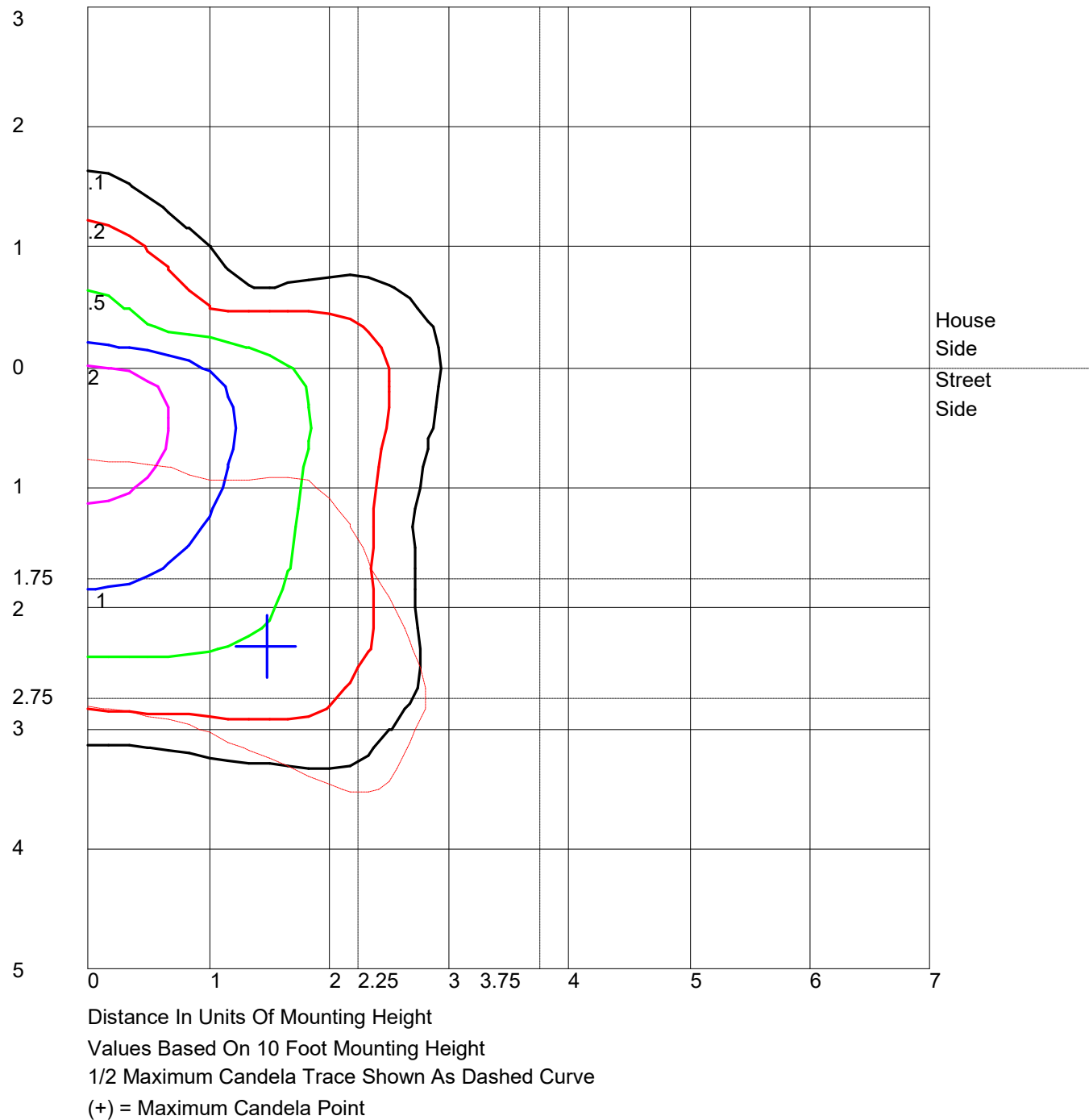
| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1298.4 | 83.9 |
| Downward House Side | 249.3 | 16.1 |
| Downward Total | 1547.7 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 1547.7 | 100.0 |

POLAR GRAPH

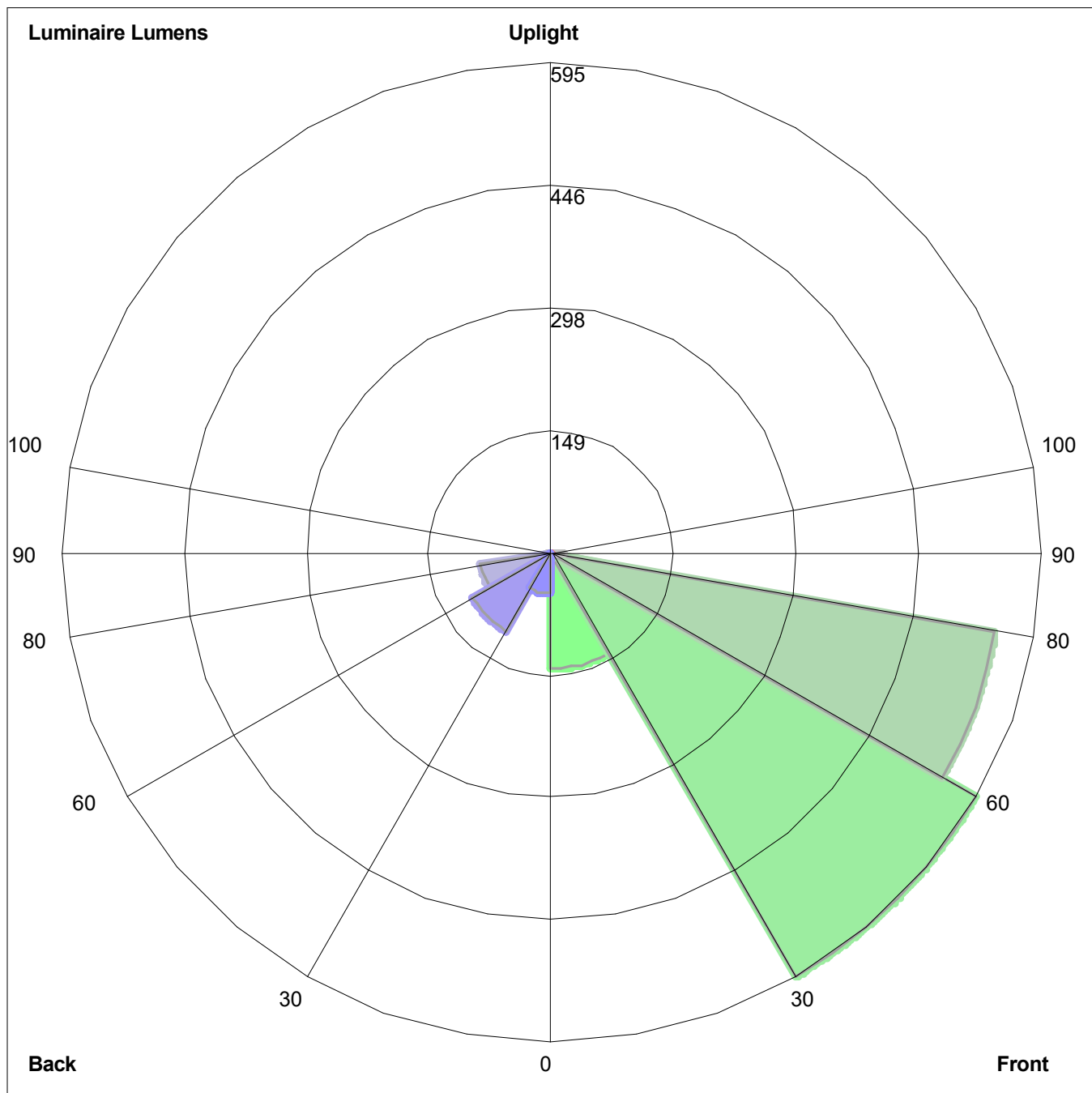


Maximum Candela = 1126 Located At Horizontal Angle = 32.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (32.5 - 212.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=141.3, Medium=595.3, High=548.5, Very High=13.4
Back: Low=50.2, Medium=109.7, High=86.6, Very High=2.8
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G1