



IES ROAD REPORT
PHOTOMETRIC FILENAME : ARCH-118-LED-BW-MULTI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13446
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 05/31/22
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] ARCH-118-LED-BW-MULTI
[LUMINAIRE OTHER] TEST PROCEDURE: IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

| | |
|---|-----------------------------|
| IES Classification | Type I |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3341 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 65 |
| Total Luminaire Watts | 51.6 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 8716 |
| Maximum Candela Angle | 2.5H 5V |
| Maximum Candela (<90 Degrees Vertical) | 8716 |
| Maximum Candela Angle (<90 Degrees Vertical) | 2.5H 5V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 252 (7.5% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1654.0 | N.A. | 49.5 |
| FM - Front-Medium (30-60) | 732.7 | N.A. | 21.9 |
| FH - Front-High (60-80) | 300.9 | N.A. | 9.0 |
| FVH - Front-Very High (80-90) | 77.9 | N.A. | 2.3 |
| BL - Back-Low (0-30) | 493.7 | N.A. | 14.8 |
| BM - Back-Medium (30-60) | 69.7 | N.A. | 2.1 |
| BH - Back-High (60-80) | 11.3 | N.A. | 0.3 |
| BVH - Back-Very High (80-90) | 0.5 | N.A. | 0.0 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 3340.7 | N.A. | 100.0 |
| BUG Rating | B1-U0-G1 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | <u>0.0</u> | <u>2.5</u> | <u>5.0</u> | <u>15.0</u> | <u>25.0</u> | <u>35.0</u> | <u>45.0</u> | <u>55.0</u> | <u>65.0</u> | <u>75.0</u> |
| 0.0 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 |
| 2.5 | 8548 | 8556 | 8560 | 8532 | 8528 | 8544 | 8612 | 8644 | 8576 | 8560 |
| 5.0 | 8704 | 8716 | 8704 | 8676 | 8652 | 8656 | 8656 | 8628 | 8488 | 8368 |
| 7.5 | 8336 | 8352 | 8328 | 8284 | 8264 | 8300 | 8300 | 8252 | 8076 | 7896 |
| 10.0 | 7580 | 7596 | 7564 | 7516 | 7504 | 7556 | 7572 | 7528 | 7356 | 7156 |
| 12.5 | 6620 | 6640 | 6608 | 6556 | 6548 | 6596 | 6596 | 6564 | 6424 | 6180 |
| 15.0 | 5560 | 5576 | 5484 | 5496 | 5500 | 5504 | 5564 | 5524 | 5412 | 5192 |
| 17.5 | 4452 | 4408 | 4388 | 4416 | 4460 | 4492 | 4560 | 4528 | 4372 | 4240 |
| 20.0 | 3488 | 3536 | 3516 | 3516 | 3524 | 3576 | 3632 | 3652 | 3520 | 3416 |
| 22.5 | 2792 | 2796 | 2824 | 2852 | 2860 | 2828 | 2884 | 2848 | 2816 | 2732 |
| 25.0 | 2260 | 2264 | 2280 | 2296 | 2296 | 2308 | 2276 | 2276 | 2240 | 2168 |
| 27.5 | 1792 | 1796 | 1812 | 1844 | 1888 | 1872 | 1848 | 1808 | 1760 | 1712 |
| 30.0 | 1452 | 1456 | 1464 | 1484 | 1524 | 1552 | 1496 | 1436 | 1400 | 1352 |
| 32.5 | 1180 | 1180 | 1188 | 1188 | 1208 | 1252 | 1248 | 1164 | 1128 | 1072 |
| 35.0 | 976 | 976 | 972 | 980 | 992 | 1008 | 1032 | 968 | 924 | 868 |
| 37.5 | 832 | 832 | 832 | 832 | 832 | 844 | 864 | 840 | 776 | 724 |
| 40.0 | 728 | 728 | 724 | 724 | 728 | 732 | 740 | 748 | 672 | 620 |
| 42.5 | 656 | 656 | 652 | 652 | 652 | 656 | 660 | 668 | 604 | 552 |
| 45.0 | 604 | 600 | 596 | 596 | 592 | 592 | 600 | 600 | 564 | 500 |
| 47.5 | 560 | 560 | 560 | 556 | 552 | 548 | 552 | 552 | 536 | 464 |
| 50.0 | 536 | 536 | 536 | 528 | 520 | 512 | 508 | 516 | 508 | 436 |
| 52.5 | 512 | 512 | 512 | 508 | 500 | 492 | 480 | 484 | 480 | 416 |
| 55.0 | 496 | 496 | 496 | 488 | 484 | 472 | 456 | 452 | 452 | 396 |
| 57.5 | 480 | 480 | 480 | 476 | 468 | 452 | 440 | 420 | 428 | 380 |
| 60.0 | 460 | 460 | 460 | 456 | 452 | 436 | 420 | 400 | 396 | 368 |
| 62.5 | 428 | 428 | 428 | 428 | 424 | 420 | 404 | 376 | 364 | 356 |
| 65.0 | 404 | 404 | 404 | 396 | 388 | 396 | 384 | 356 | 328 | 324 |
| 67.5 | 384 | 380 | 380 | 372 | 360 | 360 | 360 | 332 | 300 | 292 |
| 70.0 | 348 | 340 | 344 | 348 | 340 | 328 | 324 | 308 | 272 | 260 |
| 72.5 | 276 | 276 | 276 | 272 | 292 | 300 | 280 | 280 | 252 | 228 |
| 75.0 | 268 | 268 | 268 | 260 | 248 | 244 | 252 | 236 | 232 | 196 |
| 77.5 | 260 | 256 | 256 | 252 | 236 | 220 | 208 | 208 | 204 | 172 |
| 80.0 | 252 | 252 | 252 | 244 | 228 | 208 | 188 | 176 | 160 | 148 |
| 82.5 | 248 | 244 | 244 | 236 | 224 | 204 | 180 | 152 | 128 | 124 |
| 85.0 | 240 | 236 | 236 | 228 | 216 | 196 | 172 | 140 | 104 | 84 |
| 87.5 | 228 | 228 | 228 | 220 | 204 | 188 | 164 | 132 | 92 | 52 |
| 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 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 | 8372 |
| 2.5 | 8572 | 8528 | 8448 | 8348 | 8272 | 8140 | 8080 | 8012 | 7944 | 7880 |
| 5.0 | 8284 | 8180 | 8020 | 7796 | 7532 | 7060 | 6552 | 6136 | 5524 | 5196 |
| 7.5 | 7732 | 7580 | 7360 | 6980 | 6192 | 4960 | 3796 | 3092 | 2404 | 2220 |
| 10.0 | 6900 | 6732 | 6524 | 5900 | 4460 | 2896 | 1976 | 996 | 364 | 112 |
| 12.5 | 5920 | 5744 | 5588 | 4716 | 2900 | 1632 | 448 | 0 | 0 | 0 |
| 15.0 | 4956 | 4792 | 4596 | 3584 | 1904 | 496 | 0 | 0 | 0 | 0 |
| 17.5 | 4048 | 3904 | 3732 | 2568 | 1088 | 32 | 0 | 0 | 0 | 0 |
| 20.0 | 3260 | 3144 | 2992 | 1856 | 384 | 0 | 0 | 0 | 0 | 0 |
| 22.5 | 2608 | 2516 | 2384 | 1348 | 96 | 0 | 0 | 0 | 0 | 0 |
| 25.0 | 2072 | 2000 | 1888 | 940 | 28 | 0 | 0 | 0 | 0 | 0 |
| 27.5 | 1640 | 1584 | 1484 | 584 | 8 | 0 | 0 | 0 | 0 | 0 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|------|------|------|-----|----|---|---|---|---|---|
| 30.0 | 1296 | 1256 | 1172 | 344 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32.5 | 1044 | 1008 | 932 | 208 | 4 | 0 | 0 | 0 | 0 | 0 |
| 35.0 | 844 | 812 | 736 | 156 | 12 | 0 | 0 | 0 | 0 | 0 |
| 37.5 | 692 | 664 | 604 | 124 | 16 | 0 | 0 | 0 | 0 | 0 |
| 40.0 | 584 | 568 | 512 | 96 | 20 | 0 | 0 | 0 | 0 | 0 |
| 42.5 | 516 | 500 | 444 | 76 | 20 | 0 | 0 | 0 | 0 | 0 |
| 45.0 | 464 | 448 | 388 | 64 | 20 | 0 | 0 | 0 | 0 | 0 |
| 47.5 | 420 | 404 | 344 | 56 | 16 | 0 | 0 | 0 | 0 | 0 |
| 50.0 | 388 | 376 | 304 | 48 | 12 | 0 | 0 | 0 | 0 | 0 |
| 52.5 | 364 | 348 | 264 | 48 | 12 | 0 | 0 | 0 | 0 | 0 |
| 55.0 | 336 | 320 | 220 | 44 | 8 | 0 | 0 | 0 | 0 | 0 |
| 57.5 | 308 | 292 | 180 | 40 | 4 | 0 | 0 | 0 | 0 | 0 |
| 60.0 | 284 | 268 | 152 | 32 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5 | 252 | 236 | 128 | 24 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65.0 | 228 | 208 | 100 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5 | 204 | 184 | 72 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70.0 | 184 | 160 | 56 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5 | 168 | 140 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 156 | 120 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5 | 140 | 100 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80.0 | 120 | 80 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5 | 92 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 48 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5 | 20 | 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

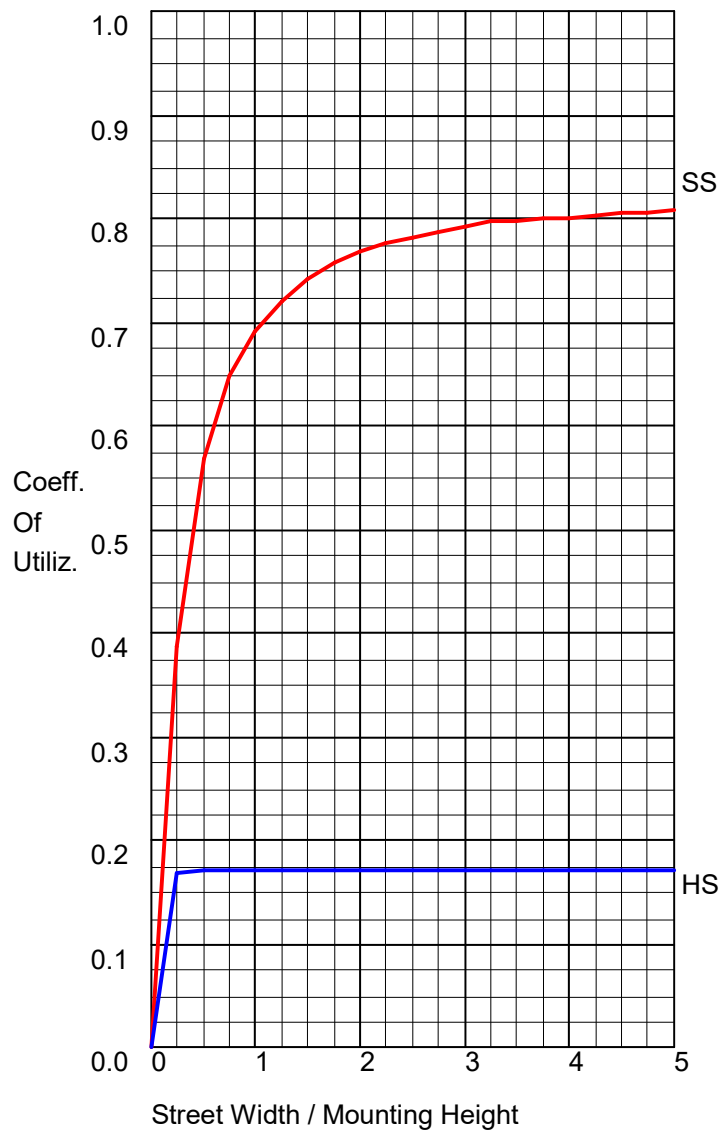
| | <u>175.0</u> | <u>180.0</u> |
|------|--------------|--------------|
| 0.0 | 8372 | 8372 |
| 2.5 | 7816 | 7816 |
| 5.0 | 4956 | 4944 |
| 7.5 | 2016 | 2004 |
| 10.0 | 0 | 0 |
| 12.5 | 0 | 0 |
| 15.0 | 0 | 0 |
| 17.5 | 0 | 0 |
| 20.0 | 0 | 0 |
| 22.5 | 0 | 0 |
| 25.0 | 0 | 0 |
| 27.5 | 0 | 0 |
| 30.0 | 0 | 0 |
| 32.5 | 0 | 0 |
| 35.0 | 0 | 0 |
| 37.5 | 0 | 0 |
| 40.0 | 0 | 0 |
| 42.5 | 0 | 0 |
| 45.0 | 0 | 0 |
| 47.5 | 0 | 0 |
| 50.0 | 0 | 0 |
| 52.5 | 0 | 0 |
| 55.0 | 0 | 0 |
| 57.5 | 0 | 0 |
| 60.0 | 0 | 0 |
| 62.5 | 0 | 0 |
| 65.0 | 0 | 0 |

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CANDELA TABULATION - (Cont.)

| | | |
|-------------|---|---|
| 67.5 | 0 | 0 |
| 70.0 | 0 | 0 |
| 72.5 | 0 | 0 |
| 75.0 | 0 | 0 |
| 77.5 | 0 | 0 |
| 80.0 | 0 | 0 |
| 82.5 | 0 | 0 |
| 85.0 | 0 | 0 |
| 87.5 | 0 | 0 |
| 90.0 | 0 | 0 |

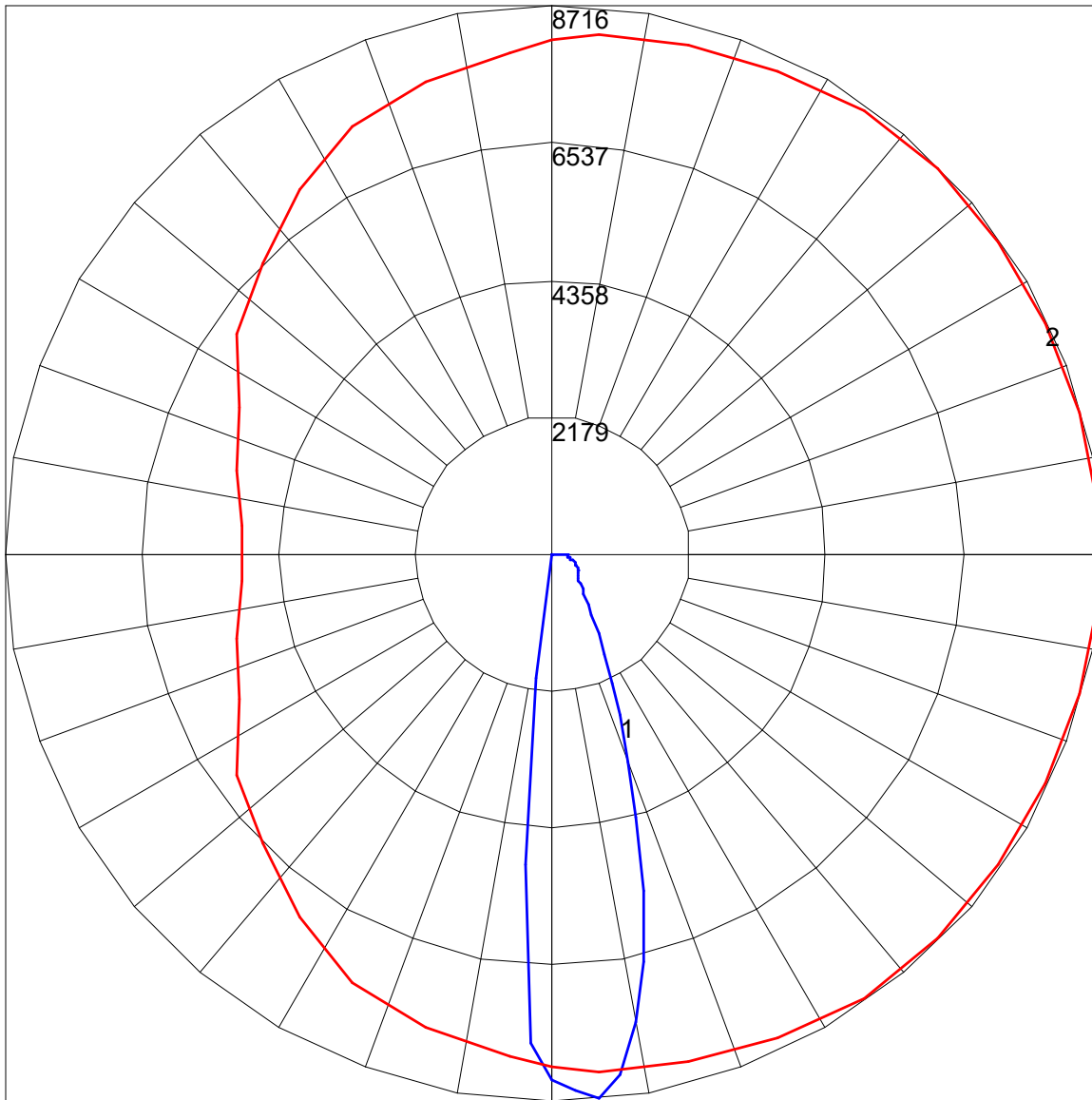
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

| | Lumens | Percent Of Luminaire |
|----------------------|--------|----------------------|
| Downward Street Side | 2765.5 | 82.8 |
| Downward House Side | 575.2 | 17.2 |
| Downward Total | 3340.6 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 3340.6 | 100.0 |

POLAR GRAPH



Maximum Candela = 8716 Located At Horizontal Angle = 2.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

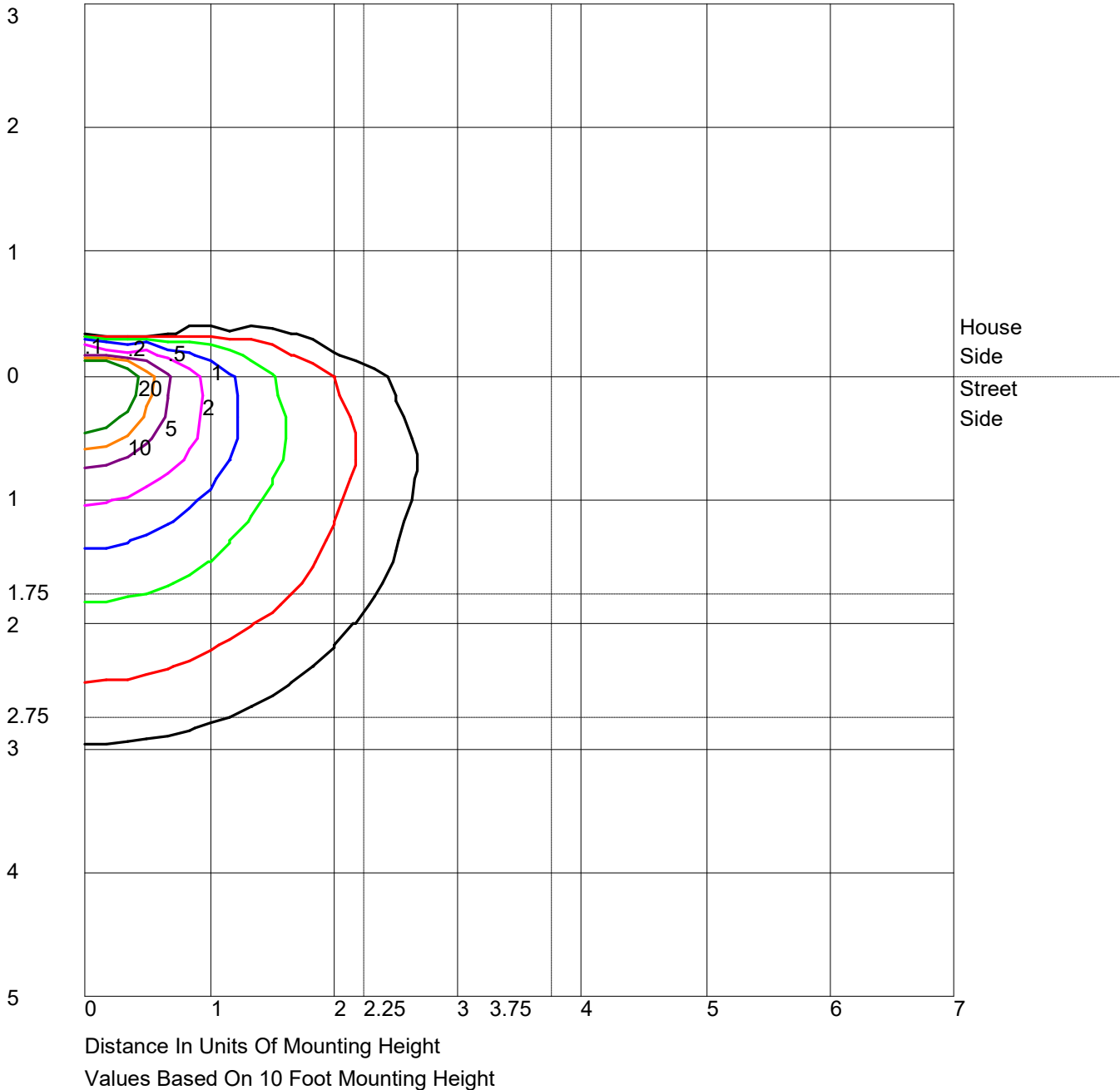


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