



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4R-LED-26L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3034

[TESTLAB] TUV SUD America

[TESTDATE] 1/13/2017 12:30:50 PM

[ISSUE DATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Outdoor

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

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

[LUMCAT] TEL22-4R-LED-26L-45

CHARACTERISTICS

| | |
|---|-------------------------------|
| IES Classification | N.A. |
| Longitudinal Classification | N.A. |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 27408 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 103 |
| Total Luminaire Watts | 265.38 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 14525 |
| Maximum Candela Angle | 320H 70V |
| Maximum Candela (<90 Degrees Vertical) | 14525 |
| Maximum Candela Angle (<90 Degrees Vertical) | 320H 70V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 4690 (17.1% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 2027.8 | N.A. | 7.4 |
| FM - Front-Medium (30-60) | 6526.3 | N.A. | 23.8 |
| FH - Front-High (60-80) | 4964.6 | N.A. | 18.1 |
| FVH - Front-Very High (80-90) | 185.0 | N.A. | 0.7 |
| BL - Back-Low (0-30) | 2027.8 | N.A. | 7.4 |
| BM - Back-Medium (30-60) | 6526.3 | N.A. | 23.8 |
| BH - Back-High (60-80) | 4964.7 | N.A. | 18.1 |
| BVH - Back-Very High (80-90) | 185.0 | N.A. | 0.7 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 27407.5 | N.A. | 100.0 |
| BUG Rating | B4-U0-G4 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>0</u> | <u>10</u> | <u>20</u> | <u>30</u> | <u>40</u> | <u>50</u> | <u>60</u> | <u>70</u> | <u>80</u> | <u>90</u> |
| 0 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 |
| 5 | 4452 | 4416 | 4362 | 4316 | 4278 | 4245 | 4218 | 4201 | 4190 | 4186 |
| 10 | 4519 | 4445 | 4350 | 4269 | 4202 | 4156 | 4123 | 4105 | 4097 | 4094 |
| 15 | 4659 | 4533 | 4397 | 4296 | 4235 | 4199 | 4177 | 4161 | 4159 | 4159 |
| 20 | 4818 | 4637 | 4478 | 4389 | 4340 | 4310 | 4280 | 4253 | 4244 | 4239 |
| 25 | 4926 | 4659 | 4506 | 4471 | 4429 | 4416 | 4390 | 4373 | 4351 | 4357 |
| 30 | 5069 | 4769 | 4558 | 4462 | 4452 | 4531 | 4539 | 4530 | 4522 | 4526 |
| 35 | 5269 | 4869 | 4614 | 4547 | 4532 | 4566 | 4654 | 4594 | 4549 | 4593 |
| 40 | 5469 | 4983 | 4727 | 4638 | 4569 | 4429 | 4252 | 4041 | 3907 | 3983 |
| 45 | 5742 | 5141 | 4849 | 4559 | 4187 | 3720 | 3381 | 3182 | 3074 | 3090 |
| 50 | 6049 | 5368 | 4611 | 3863 | 3349 | 2954 | 2827 | 2919 | 2985 | 2992 |
| 55 | 6392 | 5222 | 3797 | 2987 | 2680 | 2783 | 2910 | 3091 | 3250 | 3281 |
| 60 | 6170 | 4124 | 2672 | 2474 | 2523 | 2741 | 2987 | 3192 | 3389 | 3333 |
| 65 | 5273 | 2777 | 2169 | 2278 | 2290 | 2492 | 2643 | 2923 | 3164 | 3168 |
| 70 | 3529 | 1686 | 1782 | 1934 | 1849 | 2009 | 2373 | 2617 | 2673 | 2697 |
| 75 | 1540 | 901 | 1162 | 1314 | 1265 | 1370 | 1538 | 1641 | 1637 | 1615 |
| 80 | 419 | 359 | 455 | 552 | 563 | 540 | 563 | 606 | 580 | 544 |
| 85 | 80 | 71 | 69 | 69 | 61 | 48 | 40 | 36 | 34 | 34 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | <u>100</u> | <u>110</u> | <u>120</u> | <u>130</u> | <u>140</u> | <u>150</u> | <u>160</u> | <u>170</u> | <u>180</u> | <u>190</u> |
| 0 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 |
| 5 | 4190 | 4201 | 4218 | 4245 | 4278 | 4316 | 4362 | 4416 | 4452 | 4508 |
| 10 | 4097 | 4105 | 4123 | 4156 | 4202 | 4269 | 4350 | 4445 | 4519 | 4600 |
| 15 | 4159 | 4161 | 4177 | 4199 | 4235 | 4296 | 4397 | 4533 | 4659 | 4763 |
| 20 | 4244 | 4253 | 4280 | 4310 | 4340 | 4389 | 4478 | 4637 | 4818 | 4975 |
| 25 | 4351 | 4373 | 4390 | 4416 | 4429 | 4471 | 4506 | 4659 | 4926 | 5145 |
| 30 | 4522 | 4530 | 4539 | 4531 | 4452 | 4462 | 4558 | 4769 | 5069 | 5357 |
| 35 | 4549 | 4594 | 4654 | 4566 | 4532 | 4547 | 4614 | 4869 | 5269 | 5659 |
| 40 | 3907 | 4041 | 4252 | 4429 | 4569 | 4638 | 4727 | 4983 | 5469 | 6075 |
| 45 | 3074 | 3182 | 3381 | 3720 | 4187 | 4559 | 4849 | 5141 | 5742 | 6493 |
| 50 | 2985 | 2919 | 2827 | 2954 | 3349 | 3863 | 4611 | 5368 | 6049 | 7032 |
| 55 | 3250 | 3091 | 2910 | 2783 | 2680 | 2987 | 3797 | 5222 | 6392 | 7723 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|
| 60 | 3389 | 3192 | 2987 | 2741 | 2523 | 2474 | 2672 | 4124 | 6170 | 7906 |
| 65 | 3164 | 2923 | 2643 | 2492 | 2290 | 2278 | 2169 | 2777 | 5273 | 7677 |
| 70 | 2673 | 2617 | 2373 | 2009 | 1849 | 1934 | 1782 | 1686 | 3529 | 6292 |
| 75 | 1637 | 1641 | 1538 | 1370 | 1265 | 1314 | 1162 | 901 | 1540 | 3786 |
| 80 | 580 | 606 | 563 | 540 | 563 | 552 | 455 | 359 | 419 | 1155 |
| 85 | 34 | 36 | 40 | 48 | 61 | 69 | 69 | 71 | 80 | 147 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Vert.
Angles**

Horizontal Angles

| | <u>200</u> | <u>210</u> | <u>220</u> | <u>230</u> | <u>240</u> | <u>250</u> | <u>260</u> | <u>270</u> | <u>280</u> | <u>290</u> |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 |
| 5 | 4550 | 4589 | 4622 | 4650 | 4681 | 4698 | 4712 | 4722 | 4712 | 4698 |
| 10 | 4662 | 4719 | 4774 | 4830 | 4892 | 4946 | 4982 | 4996 | 4982 | 4946 |
| 15 | 4856 | 4931 | 4979 | 5012 | 5050 | 5116 | 5191 | 5211 | 5191 | 5116 |
| 20 | 5108 | 5195 | 5228 | 5231 | 5254 | 5322 | 5412 | 5440 | 5412 | 5322 |
| 25 | 5376 | 5500 | 5544 | 5577 | 5602 | 5634 | 5680 | 5704 | 5680 | 5634 |
| 30 | 5590 | 5711 | 5869 | 5942 | 5966 | 5953 | 5947 | 5978 | 5947 | 5953 |
| 35 | 5906 | 5989 | 6090 | 6282 | 6370 | 6391 | 6378 | 6391 | 6378 | 6391 |
| 40 | 6359 | 6446 | 6490 | 6648 | 6908 | 6962 | 6959 | 6942 | 6959 | 6962 |
| 45 | 6898 | 7127 | 7119 | 7129 | 7177 | 7282 | 7310 | 7324 | 7310 | 7282 |
| 50 | 7498 | 7722 | 7530 | 7441 | 7458 | 7712 | 7955 | 8142 | 7955 | 7712 |
| 55 | 8546 | 8583 | 8125 | 7970 | 8419 | 8920 | 9545 | 9649 | 9545 | 8920 |
| 60 | 9278 | 9834 | 9498 | 9308 | 10447 | 10956 | 11342 | 11361 | 11342 | 10956 |
| 65 | 9729 | 10948 | 11819 | 12391 | 12061 | 10986 | 10563 | 10014 | 10563 | 10986 |
| 70 | 9045 | 11273 | 14525 | 13182 | 10618 | 7909 | 5201 | 4385 | 5201 | 7909 |
| 75 | 6584 | 9833 | 11944 | 9552 | 4032 | 2134 | 1517 | 1262 | 1517 | 2134 |
| 80 | 2296 | 3684 | 4690 | 2154 | 854 | 602 | 418 | 346 | 418 | 602 |
| 85 | 194 | 255 | 299 | 145 | 81 | 57 | 53 | 52 | 53 | 57 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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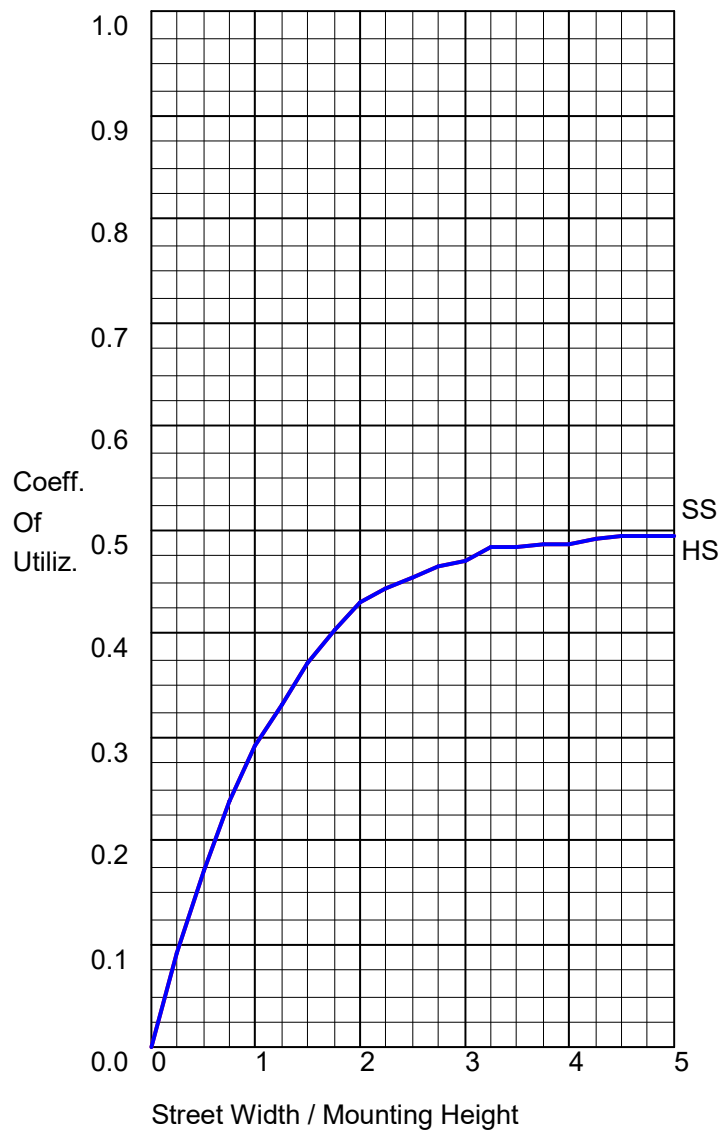
CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Angles **Horizontal Angles**

| | <u>300</u> | <u>310</u> | <u>320</u> | <u>330</u> | <u>340</u> | <u>350</u> | <u>360</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|
| 0 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 | 4447 |
| 5 | 4681 | 4650 | 4622 | 4589 | 4550 | 4508 | 4452 |
| 10 | 4892 | 4830 | 4774 | 4719 | 4662 | 4600 | 4519 |
| 15 | 5050 | 5012 | 4979 | 4931 | 4856 | 4763 | 4659 |
| 20 | 5254 | 5231 | 5228 | 5195 | 5108 | 4975 | 4818 |
| 25 | 5602 | 5577 | 5544 | 5500 | 5376 | 5145 | 4926 |
| 30 | 5966 | 5942 | 5869 | 5711 | 5590 | 5357 | 5069 |
| 35 | 6370 | 6282 | 6090 | 5989 | 5906 | 5659 | 5269 |
| 40 | 6908 | 6648 | 6490 | 6446 | 6359 | 6075 | 5469 |
| 45 | 7177 | 7129 | 7119 | 7127 | 6898 | 6493 | 5742 |
| 50 | 7458 | 7441 | 7530 | 7722 | 7498 | 7032 | 6049 |
| 55 | 8419 | 7970 | 8125 | 8583 | 8546 | 7723 | 6392 |
| 60 | 10447 | 9308 | 9498 | 9834 | 9278 | 7906 | 6170 |
| 65 | 12061 | 12391 | 11819 | 10948 | 9729 | 7677 | 5273 |
| 70 | 10618 | 13182 | 14525 | 11273 | 9045 | 6292 | 3529 |
| 75 | 4032 | 9552 | 11944 | 9833 | 6584 | 3786 | 1540 |
| 80 | 854 | 2154 | 4690 | 3684 | 2296 | 1155 | 419 |
| 85 | 81 | 145 | 299 | 255 | 194 | 147 | 80 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

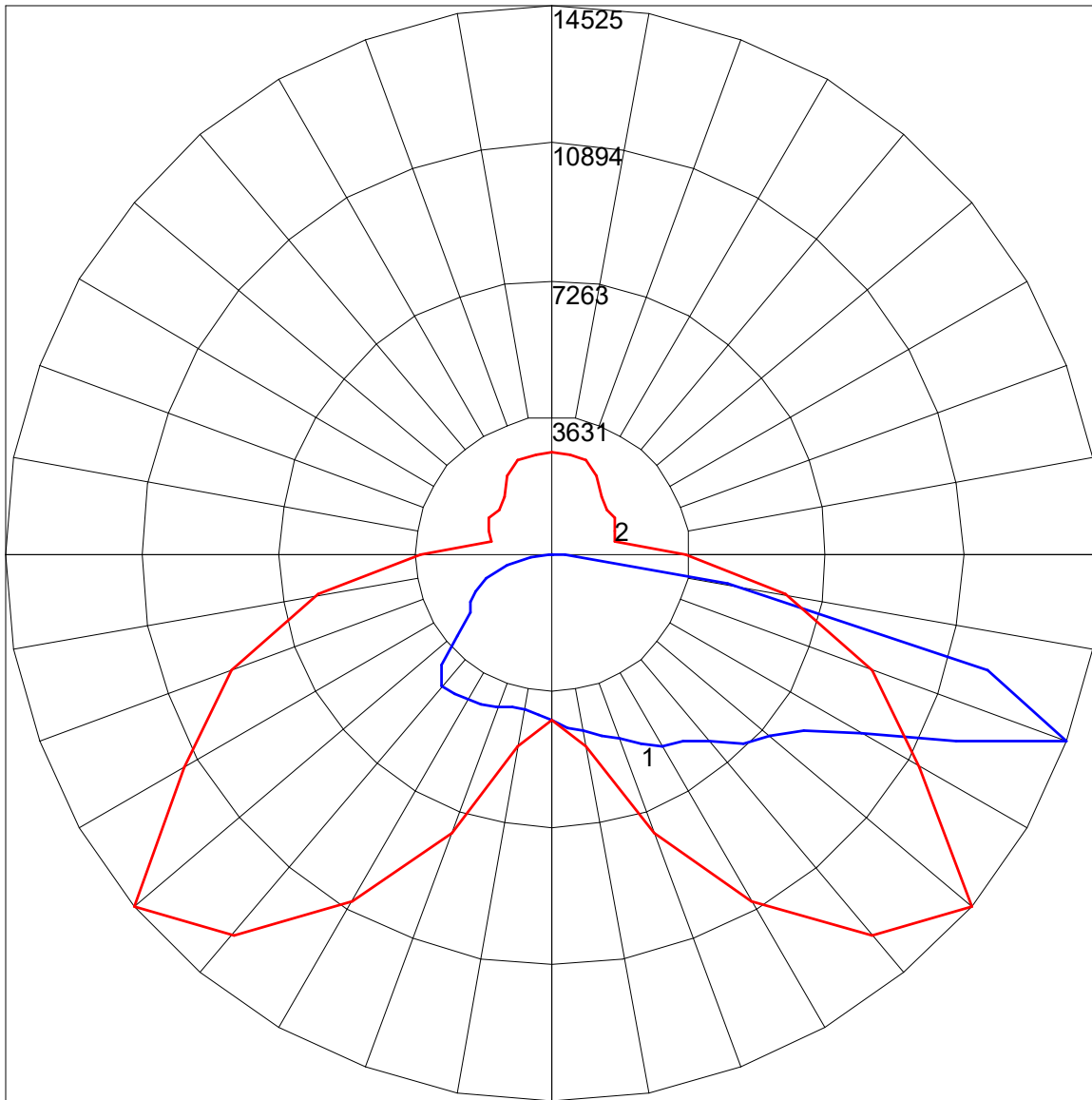
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

| | Lumens | Percent Of Luminaire |
|----------------------|---------|-------------------------|
| Downward Street Side | 13703.8 | 50.0 |
| Downward House Side | 13703.8 | 50.0 |
| Downward Total | 27407.6 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 27407.6 | 100.0 |

POLAR GRAPH



Maximum Candela = 14525 Located At Horizontal Angle = 320, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

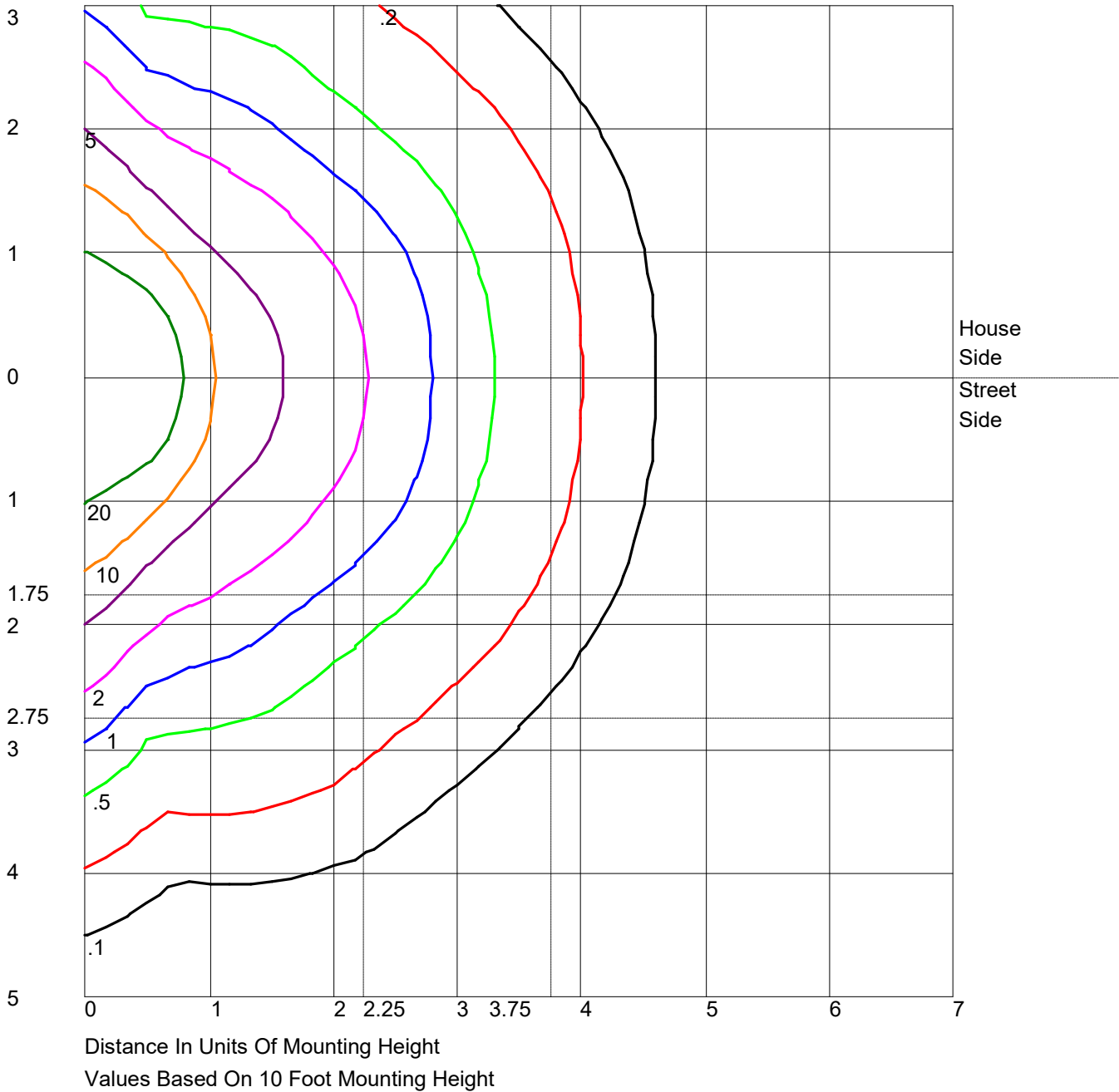


PHOTO IES R

