**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : CRUS-SCFT-LED-VHO-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] LED-13623
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 09/01/22
[TESTDATE] 08/26/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CRUS-SCFT-LED-VHO-30
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[_FACTORED] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_COLORTEMP] 3000
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor

**CHARACTERISTICS**

| | |
|---|---|
| IES Classification | Type IV |
| Longitudinal Classification | Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 22192 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 146 |
| Total Luminaire Watts | 152 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 8731 |
| Maximum Candela Angle | 42.5H 65V |
| Maximum Candela (<90 Degrees Vertical) | 8731 |
| Maximum Candela Angle (<90 Degrees Vertical) | 42.5H 65V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 1496 (6.7% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| FL - Front-Low (0-30) | 2230.5 | N.A. | 10.1 |
| FM - Front-Medium (30-60) | 8089.5 | N.A. | 36.5 |
| FH - Front-High (60-80) | 4217.1 | N.A. | 19.0 |
| FVH - Front-Very High (80-90) | 189.4 | N.A. | 0.9 |
| BL - Back-Low (0-30) | 1723.8 | N.A. | 7.8 |
| BM - Back-Medium (30-60) | 4061.7 | N.A. | 18.3 |
| BH - Back-High (60-80) | 1478.0 | N.A. | 6.7 |
| BVH - Back-Very High (80-90) | 202.4 | N.A. | 0.9 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 22192.4 | N.A. | 100.0 |
| BUG Rating | B3-U0-G3 | | |

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**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : CRUS-SCFT-LED-VHO-30.IES**

**CANDELA TABULATION**

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0.0 | 5.0 | 15.0 | 25.0 | 35.0 | 42.5 | 45.0 | 55.0 | 65.0 | 75.0 |
| 0.0 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 |
| 2.5 | 4424 | 4436 | 4440 | 4438 | 4426 | 4427 | 4421 | 4407 | 4393 | 4379 |
| 5.0 | 4573 | 4584 | 4586 | 4578 | 4556 | 4548 | 4538 | 4509 | 4476 | 4441 |
| 7.5 | 4716 | 4734 | 4728 | 4718 | 4697 | 4676 | 4664 | 4623 | 4572 | 4523 |
| 10.0 | 4858 | 4862 | 4858 | 4850 | 4829 | 4806 | 4799 | 4744 | 4681 | 4614 |
| 12.5 | 4974 | 4977 | 4976 | 4972 | 4955 | 4933 | 4927 | 4868 | 4802 | 4715 |
| 15.0 | 5085 | 5089 | 5089 | 5089 | 5078 | 5059 | 5054 | 5003 | 4929 | 4830 |
| 17.5 | 5195 | 5200 | 5203 | 5207 | 5203 | 5195 | 5186 | 5140 | 5069 | 4964 |
| 20.0 | 5308 | 5313 | 5321 | 5333 | 5333 | 5332 | 5335 | 5300 | 5230 | 5120 |
| 22.5 | 5415 | 5422 | 5439 | 5464 | 5478 | 5487 | 5490 | 5469 | 5420 | 5302 |
| 25.0 | 5521 | 5534 | 5560 | 5608 | 5640 | 5659 | 5667 | 5670 | 5645 | 5528 |
| 27.5 | 5646 | 5662 | 5706 | 5774 | 5836 | 5861 | 5879 | 5910 | 5918 | 5830 |
| 30.0 | 5791 | 5813 | 5878 | 5962 | 6050 | 6100 | 6130 | 6197 | 6232 | 6158 |
| 32.5 | 5935 | 5962 | 6064 | 6185 | 6298 | 6377 | 6423 | 6528 | 6578 | 6490 |
| 35.0 | 6066 | 6100 | 6238 | 6413 | 6576 | 6695 | 6755 | 6899 | 6938 | 6806 |
| 37.5 | 6165 | 6202 | 6371 | 6625 | 6885 | 7060 | 7137 | 7302 | 7297 | 7046 |
| 40.0 | 6252 | 6290 | 6489 | 6831 | 7227 | 7470 | 7556 | 7689 | 7533 | 7081 |
| 42.5 | 6349 | 6383 | 6616 | 7045 | 7615 | 7895 | 7991 | 7952 | 7572 | 6930 |
| 45.0 | 6463 | 6501 | 6767 | 7284 | 7990 | 8256 | 8298 | 8017 | 7518 | 6872 |
| 47.5 | 6603 | 6642 | 6941 | 7539 | 8265 | 8408 | 8353 | 7919 | 7516 | 6946 |
| 50.0 | 6748 | 6788 | 7094 | 7703 | 8300 | 8255 | 8171 | 7873 | 7635 | 7083 |
| 52.5 | 6824 | 6862 | 7117 | 7604 | 7960 | 8003 | 8005 | 7974 | 7778 | 7172 |
| 55.0 | 6626 | 6640 | 6816 | 7079 | 7586 | 7950 | 8059 | 8141 | 7844 | 7114 |
| 57.5 | 6553 | 6574 | 6599 | 6779 | 7737 | 8218 | 8343 | 8252 | 7707 | 6789 |
| 60.0 | 6662 | 6697 | 6813 | 7114 | 8088 | 8425 | 8518 | 8165 | 7225 | 6112 |
| 62.5 | 6471 | 6473 | 6645 | 7001 | 7918 | 8622 | 8668 | 7699 | 6335 | 5120 |
| 65.0 | 5052 | 5091 | 5422 | 6377 | 8054 | 8731 | 8515 | 6701 | 5100 | 3950 |
| 67.5 | 4890 | 4904 | 4966 | 6090 | 8115 | 8137 | 7651 | 5159 | 3709 | 2717 |
| 70.0 | 4935 | 4963 | 5135 | 6507 | 8238 | 6983 | 6029 | 3490 | 2485 | 1751 |
| 72.5 | 4143 | 4211 | 4611 | 6227 | 7136 | 5061 | 4134 | 2177 | 1575 | 1184 |
| 75.0 | 2750 | 2759 | 3273 | 4578 | 4902 | 3173 | 2550 | 1433 | 1146 | 929 |
| 77.5 | 1655 | 1658 | 2031 | 2863 | 2728 | 1797 | 1475 | 1017 | 861 | 728 |
| 80.0 | 901 | 908 | 1093 | 1496 | 1491 | 929 | 805 | 736 | 635 | 557 |
| 82.5 | 512 | 495 | 613 | 763 | 705 | 559 | 546 | 489 | 436 | 400 |
| 85.0 | 250 | 259 | 305 | 368 | 357 | 331 | 329 | 290 | 254 | 240 |
| 87.5 | 92 | 96 | 109 | 132 | 143 | 142 | 152 | 127 | 102 | 100 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 85.0 | 90.0 | 95.0 | 105.0 | 115.0 | 125.0 | 135.0 | 145.0 | 155.0 | 165.0 |
| 0.0 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 | 4347 |
| 2.5 | 4369 | 4360 | 4354 | 4338 | 4327 | 4313 | 4289 | 4287 | 4272 | 4274 |
| 5.0 | 4407 | 4386 | 4366 | 4324 | 4287 | 4247 | 4200 | 4178 | 4148 | 4139 |
| 7.5 | 4463 | 4429 | 4394 | 4323 | 4257 | 4189 | 4117 | 4074 | 4028 | 4001 |
| 10.0 | 4531 | 4484 | 4435 | 4333 | 4236 | 4137 | 4040 | 3975 | 3913 | 3875 |
| 12.5 | 4611 | 4552 | 4488 | 4354 | 4222 | 4090 | 3968 | 3881 | 3804 | 3756 |
| 15.0 | 4706 | 4633 | 4554 | 4384 | 4211 | 4044 | 3898 | 3797 | 3719 | 3677 |
| 17.5 | 4818 | 4729 | 4631 | 4419 | 4201 | 3999 | 3836 | 3735 | 3674 | 3651 |
| 20.0 | 4953 | 4844 | 4725 | 4464 | 4193 | 3958 | 3786 | 3703 | 3672 | 3673 |
| 22.5 | 5115 | 4986 | 4843 | 4528 | 4198 | 3931 | 3758 | 3711 | 3721 | 3745 |
| 25.0 | 5322 | 5174 | 5016 | 4624 | 4230 | 3926 | 3763 | 3766 | 3822 | 3861 |
| 27.5 | 5598 | 5445 | 5240 | 4759 | 4293 | 3952 | 3806 | 3859 | 3941 | 3986 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **30.0** | 5905 | 5729 | 5492 | 4917 | 4381 | 4012 | 3896 | 3980 | 4041 | 4065 |
| **32.5** | 6212 | 6007 | 5730 | 5080 | 4489 | 4105 | 4019 | 4092 | 4104 | 4089 |
| **35.0** | 6468 | 6216 | 5921 | 5227 | 4599 | 4227 | 4155 | 4170 | 4105 | 4029 |
| **37.5** | 6560 | 6259 | 5947 | 5260 | 4671 | 4351 | 4289 | 4210 | 4039 | 3900 |
| **40.0** | 6392 | 6021 | 5665 | 5024 | 4563 | 4421 | 4399 | 4209 | 3931 | 3711 |
| **42.5** | 6101 | 5650 | 5219 | 4536 | 4182 | 4285 | 4425 | 4190 | 3776 | 3464 |
| **45.0** | 5950 | 5407 | 4869 | 4023 | 3695 | 3899 | 4266 | 4104 | 3594 | 3208 |
| **47.5** | 5939 | 5293 | 4627 | 3556 | 3157 | 3456 | 3908 | 3904 | 3403 | 2962 |
| **50.0** | 5954 | 5201 | 4410 | 3161 | 2707 | 2965 | 3490 | 3597 | 3209 | 2741 |
| **52.5** | 5899 | 5046 | 4153 | 2767 | 2309 | 2525 | 3068 | 3253 | 2999 | 2558 |
| **55.0** | 5695 | 4745 | 3790 | 2383 | 1976 | 2152 | 2629 | 2952 | 2810 | 2413 |
| **57.5** | 5234 | 4266 | 3320 | 1994 | 1701 | 1867 | 2286 | 2690 | 2655 | 2313 |
| **60.0** | 4489 | 3588 | 2766 | 1650 | 1496 | 1642 | 2018 | 2478 | 2538 | 2229 |
| **62.5** | 3616 | 2861 | 2199 | 1386 | 1358 | 1482 | 1771 | 2274 | 2437 | 2153 |
| **65.0** | 2712 | 2149 | 1660 | 1189 | 1253 | 1370 | 1586 | 2074 | 2350 | 2082 |
| **67.5** | 1898 | 1541 | 1262 | 1059 | 1157 | 1269 | 1440 | 1873 | 2238 | 1998 |
| **70.0** | 1317 | 1134 | 1030 | 959 | 1048 | 1156 | 1304 | 1672 | 2094 | 1919 |
| **72.5** | 1002 | 919 | 891 | 853 | 936 | 1025 | 1154 | 1474 | 1935 | 1851 |
| **75.0** | 815 | 762 | 743 | 748 | 816 | 893 | 1013 | 1299 | 1754 | 1797 |
| **77.5** | 656 | 608 | 606 | 637 | 693 | 748 | 852 | 1093 | 1480 | 1619 |
| **80.0** | 495 | 465 | 469 | 509 | 555 | 591 | 638 | 840 | 1123 | 1301 |
| **82.5** | 350 | 324 | 329 | 375 | 409 | 423 | 466 | 573 | 797 | 943 |
| **85.0** | 217 | 201 | 208 | 243 | 259 | 272 | 330 | 361 | 469 | 598 |
| **87.5** | 97 | 93 | 98 | 109 | 132 | 157 | 197 | 197 | 226 | 279 |
| **90.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| **Vert. Angles** | **Horizontal Angles** | |
|---|---|---|
| | **175.0** | **180.0** |
| **0.0** | 4347 | 4347 |
| **2.5** | 4267 | 4278 |
| **5.0** | 4126 | 4136 |
| **7.5** | 3991 | 3998 |
| **10.0** | 3859 | 3865 |
| **12.5** | 3732 | 3742 |
| **15.0** | 3657 | 3659 |
| **17.5** | 3640 | 3644 |
| **20.0** | 3675 | 3679 |
| **22.5** | 3753 | 3756 |
| **25.0** | 3867 | 3869 |
| **27.5** | 3984 | 3985 |
| **30.0** | 4050 | 4048 |
| **32.5** | 4045 | 4038 |
| **35.0** | 3951 | 3937 |
| **37.5** | 3786 | 3769 |
| **40.0** | 3567 | 3549 |
| **42.5** | 3313 | 3297 |
| **45.0** | 3042 | 3013 |
| **47.5** | 2802 | 2771 |
| **50.0** | 2570 | 2552 |
| **52.5** | 2388 | 2375 |
| **55.0** | 2253 | 2247 |
| **57.5** | 2157 | 2152 |
| **60.0** | 2085 | 2079 |
| **62.5** | 2027 | 2020 |
| **65.0** | 1955 | 1946 |

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**CANDELA TABULATION - (Cont.)**

| | | |
|---|---|---|
| **67.5** | 1840 | 1804 |
| **70.0** | 1760 | 1734 |
| **72.5** | 1686 | 1661 |
| **75.0** | 1577 | 1555 |
| **77.5** | 1395 | 1366 |
| **80.0** | 1082 | 1061 |
| **82.5** | 744 | 713 |
| **85.0** | 450 | 428 |
| **87.5** | 222 | 195 |
| **90.0** | 0 | 0 |

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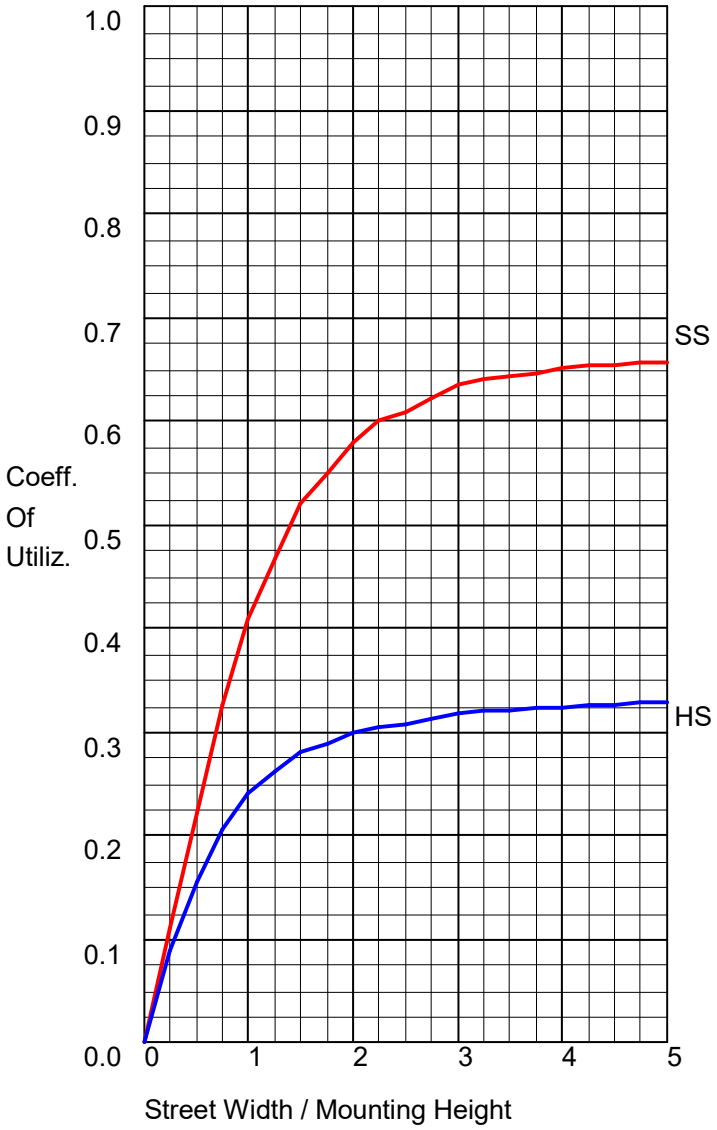
**COEFFICIENTS OF UTILIZATION**




**FLUX DISTRIBUTION**

| | Lumens | Percent Of Luminaire |
|---|---|---|
| Downward Street Side | 14726.6 | 66.4 |
| Downward House Side | 7465.9 | 33.6 |
| Downward Total | 22192.5 | 100.0 |
| | | |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| | | |
| Total Flux | 22192.5 | 100.0 |

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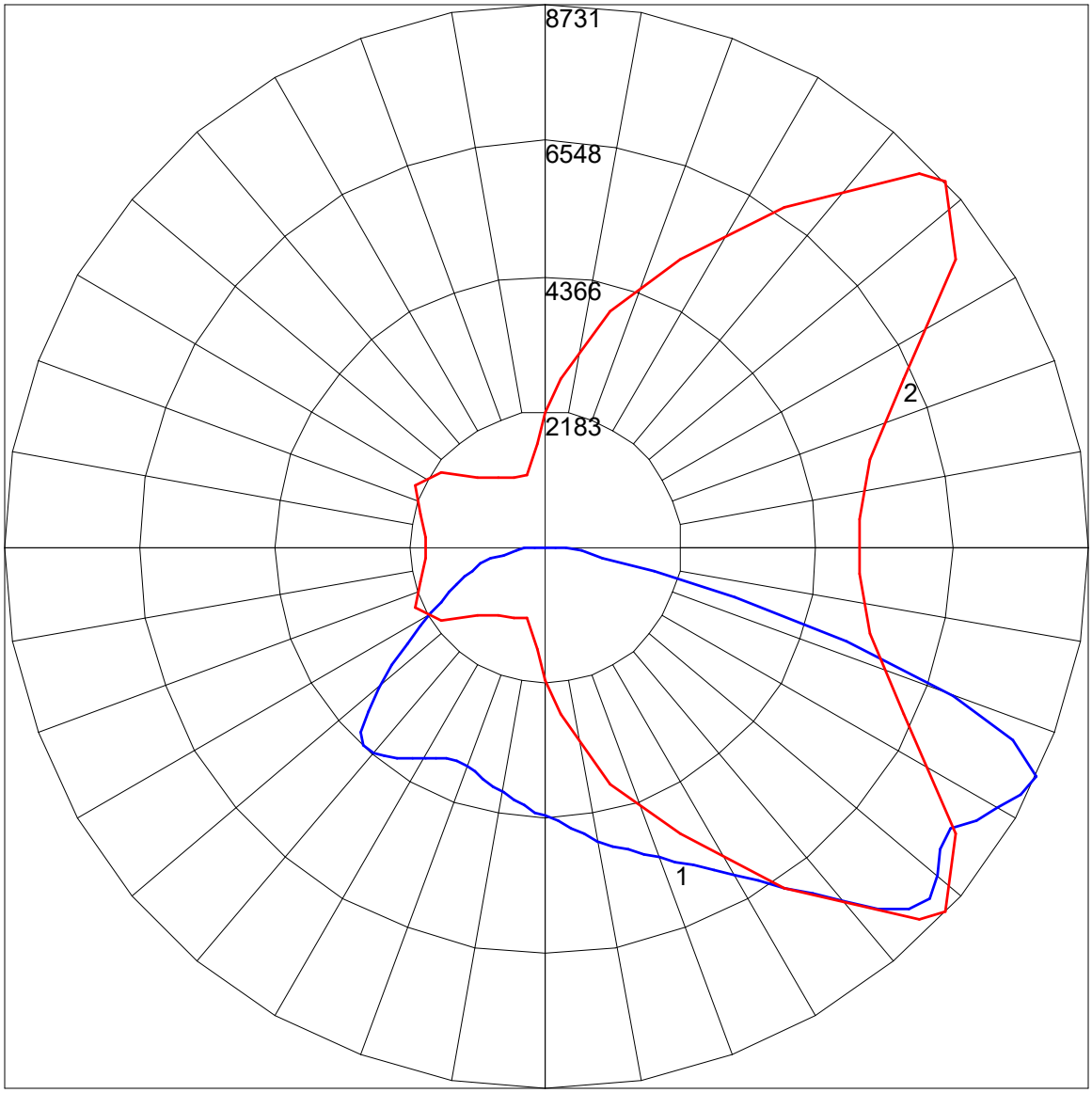
**POLAR GRAPH**




Maximum Candela = 8731  Located At Horizontal Angle = 42.5, Vertical Angle = 65
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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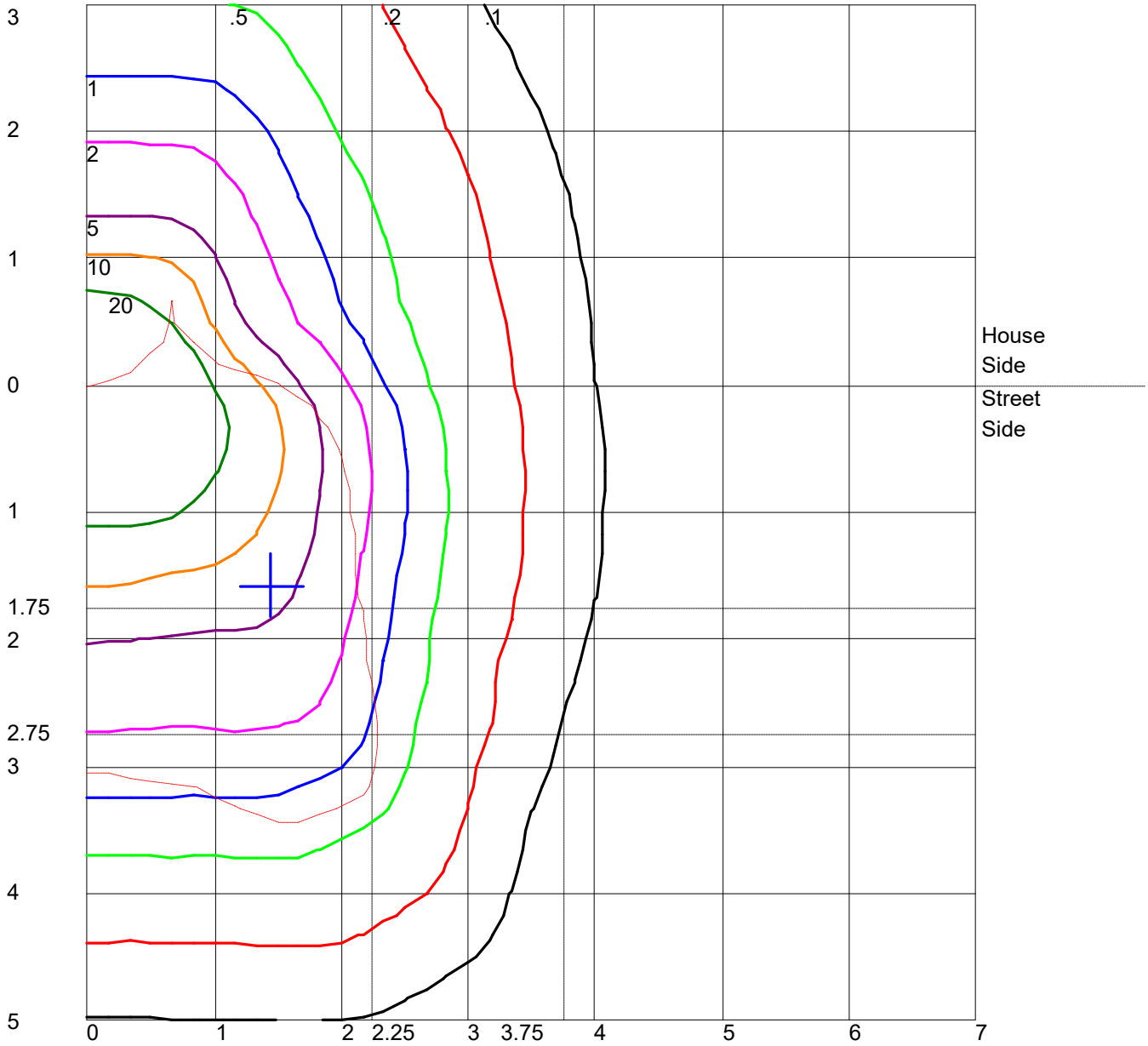
**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**




Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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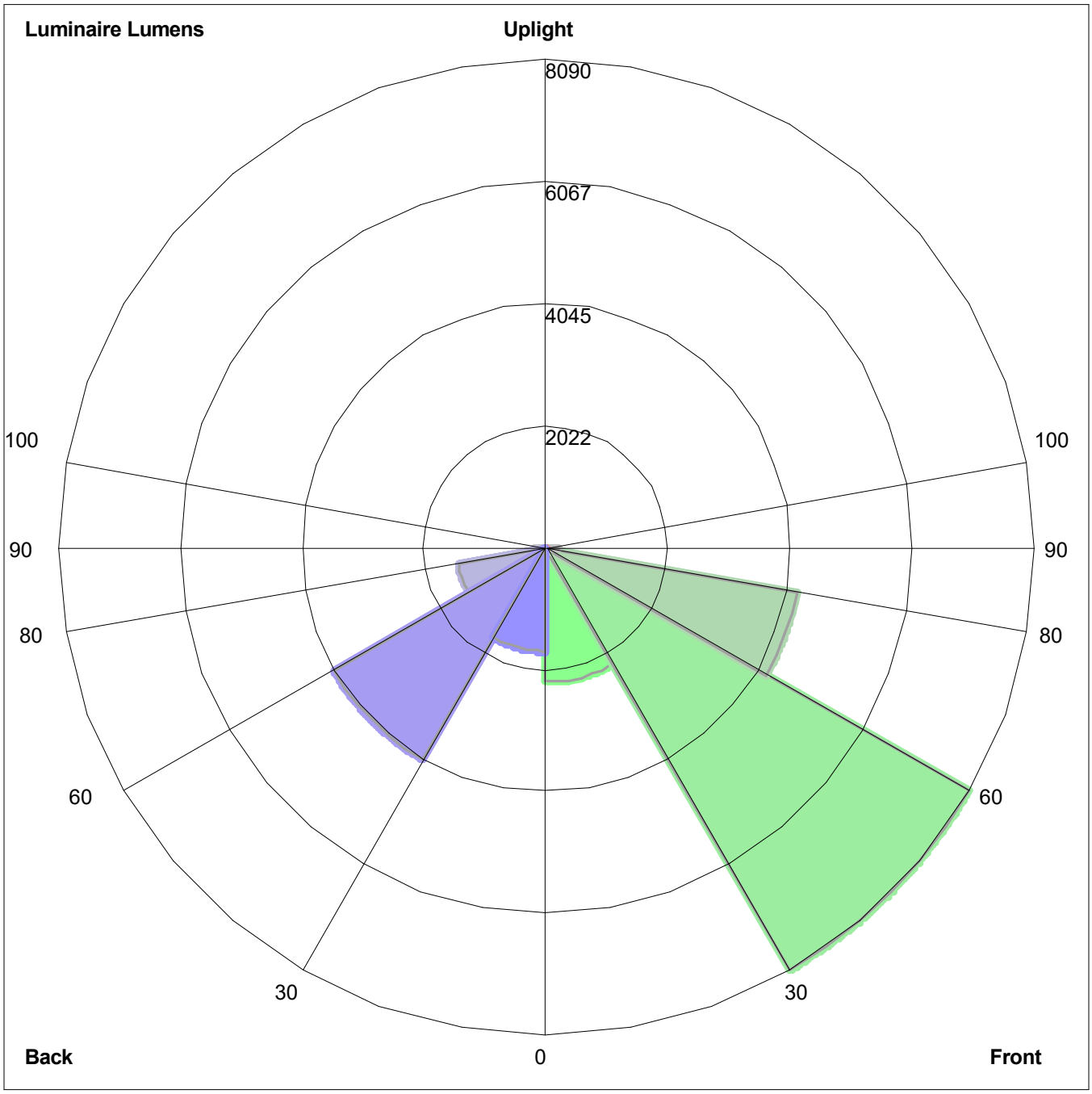
**LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH**




Luminaire Lumens:
Front: Low=2230.5, Medium=8089.5, High=4217.1, Very High=189.4
Back: Low=1723.8, Medium=4061.7, High= 1478.0, Very High=202.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3

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