**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : CRUS-AC-LW-40.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] LED-12156
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 08/27/20
[TESTDATE] 08/19/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CRUS-AC-LW-40
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor

**CHARACTERISTICS**

| | |
|---|---|
| IES Classification | Type II |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 9379 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 128 |
| Total Luminaire Watts | 73 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 4973 |
| Maximum Candela Angle | 2.5H 25V |
| Maximum Candela (<90 Degrees Vertical) | 4973 |
| Maximum Candela Angle (<90 Degrees Vertical) | 2.5H 25V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 972 (10.4% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| FL - Front-Low (0-30) | 1606.0 | N.A. | 17.1 |
| FM - Front-Medium (30-60) | 3659.3 | N.A. | 39.0 |
| FH - Front-High (60-80) | 1604.9 | N.A. | 17.1 |
| FVH - Front-Very High (80-90) | 114.0 | N.A. | 1.2 |
| BL - Back-Low (0-30) | 744.0 | N.A. | 7.9 |
| BM - Back-Medium (30-60) | 1046.5 | N.A. | 11.2 |
| BH - Back-High (60-80) | 555.3 | N.A. | 5.9 |
| BVH - Back-Very High (80-90) | 48.4 | N.A. | 0.5 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 9378.4 | N.A. | 100.0 |
| BUG Rating | B2-U0-G2 | | |

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**IES ROAD REPORT**
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**CANDELA TABULATION**

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0.0 | 2.5 | 5.0 | 15.0 | 25.0 | 35.0 | 45.0 | 55.0 | 65.0 | 75.0 |
| 0.0 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 |
| 2.5 | 3901 | 3882 | 3887 | 3899 | 3897 | 3888 | 3905 | 3904 | 3905 | 3908 |
| 5.0 | 3764 | 3753 | 3740 | 3756 | 3782 | 3782 | 3812 | 3832 | 3827 | 3855 |
| 7.5 | 3571 | 3566 | 3557 | 3576 | 3606 | 3639 | 3672 | 3697 | 3715 | 3723 |
| 10.0 | 3502 | 3517 | 3507 | 3511 | 3489 | 3492 | 3516 | 3561 | 3600 | 3547 |
| 12.5 | 3772 | 3749 | 3741 | 3697 | 3624 | 3514 | 3495 | 3448 | 3482 | 3464 |
| 15.0 | 4000 | 4005 | 3989 | 3954 | 3876 | 3713 | 3577 | 3526 | 3366 | 3413 |
| 17.5 | 4283 | 4274 | 4282 | 4239 | 4095 | 3892 | 3708 | 3664 | 3411 | 3413 |
| 20.0 | 4587 | 4574 | 4583 | 4528 | 4344 | 4053 | 3789 | 3676 | 3584 | 3383 |
| 22.5 | 4947 | 4945 | 4932 | 4810 | 4514 | 4128 | 3841 | 3665 | 3743 | 3327 |
| 25.0 | 4945 | 4973 | 4960 | 4922 | 4570 | 4070 | 3821 | 3654 | 3852 | 3280 |
| 27.5 | 4418 | 4419 | 4431 | 4468 | 4311 | 4001 | 3859 | 3677 | 3762 | 3271 |
| 30.0 | 4081 | 4069 | 4066 | 4038 | 3991 | 3914 | 3889 | 3726 | 3729 | 3301 |
| 32.5 | 3956 | 3961 | 3937 | 3906 | 3867 | 3830 | 3801 | 3735 | 3931 | 3317 |
| 35.0 | 3896 | 3892 | 3893 | 3853 | 3807 | 3768 | 3741 | 3665 | 3847 | 3376 |
| 37.5 | 3835 | 3816 | 3830 | 3806 | 3735 | 3690 | 3698 | 3655 | 3655 | 3454 |
| 40.0 | 3755 | 3735 | 3740 | 3699 | 3649 | 3604 | 3613 | 3658 | 3512 | 3414 |
| 42.5 | 3655 | 3640 | 3635 | 3604 | 3537 | 3502 | 3501 | 3584 | 3487 | 3311 |
| 45.0 | 3505 | 3489 | 3495 | 3456 | 3430 | 3388 | 3374 | 3423 | 3414 | 3146 |
| 47.5 | 3329 | 3338 | 3326 | 3304 | 3303 | 3278 | 3251 | 3244 | 3276 | 3092 |
| 50.0 | 3114 | 3120 | 3115 | 3116 | 3143 | 3138 | 3116 | 3080 | 3170 | 3051 |
| 52.5 | 2845 | 2846 | 2854 | 2917 | 2991 | 2977 | 2973 | 2955 | 2951 | 3029 |
| 55.0 | 2592 | 2604 | 2596 | 2680 | 2801 | 2820 | 2851 | 2841 | 2765 | 2878 |
| 57.5 | 2367 | 2376 | 2377 | 2446 | 2605 | 2672 | 2748 | 2716 | 2586 | 2540 |
| 60.0 | 2143 | 2140 | 2157 | 2239 | 2430 | 2548 | 2652 | 2584 | 2398 | 2242 |
| 62.5 | 1955 | 1955 | 1964 | 2029 | 2226 | 2435 | 2540 | 2396 | 2218 | 2004 |
| 65.0 | 1850 | 1843 | 1859 | 1939 | 2054 | 2304 | 2394 | 2198 | 2007 | 1734 |
| 67.5 | 1636 | 1667 | 1697 | 1935 | 1969 | 2187 | 2215 | 1928 | 1736 | 1513 |
| 70.0 | 1248 | 1269 | 1303 | 1936 | 1918 | 2078 | 1966 | 1644 | 1490 | 1311 |
| 72.5 | 1029 | 1038 | 1070 | 1876 | 1831 | 1861 | 1702 | 1374 | 1218 | 1106 |
| 75.0 | 742 | 756 | 776 | 1706 | 1642 | 1528 | 1334 | 1097 | 934 | 888 |
| 77.5 | 335 | 334 | 366 | 1196 | 1320 | 1240 | 882 | 801 | 680 | 629 |
| 80.0 | 249 | 254 | 270 | 794 | 972 | 919 | 606 | 504 | 438 | 394 |
| 82.5 | 213 | 215 | 232 | 544 | 566 | 458 | 360 | 220 | 252 | 214 |
| 85.0 | 139 | 146 | 157 | 277 | 224 | 165 | 162 | 87 | 115 | 103 |
| 87.5 | 43 | 49 | 51 | 77 | 70 | 63 | 53 | 40 | 42 | 42 |
| 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 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 | 3876 |
| 2.5 | 3888 | 3905 | 3889 | 3887 | 3879 | 3877 | 3837 | 3825 | 3830 | 3798 |
| 5.0 | 3846 | 3853 | 3845 | 3805 | 3754 | 3654 | 3538 | 3431 | 3279 | 3235 |
| 7.5 | 3714 | 3725 | 3707 | 3633 | 3496 | 3250 | 2949 | 2649 | 2462 | 2381 |
| 10.0 | 3521 | 3525 | 3485 | 3380 | 3123 | 2715 | 2339 | 2055 | 1937 | 1886 |
| 12.5 | 3298 | 3280 | 3241 | 3045 | 2700 | 2226 | 1889 | 1761 | 1695 | 1648 |
| 15.0 | 3111 | 3028 | 2984 | 2739 | 2313 | 1881 | 1656 | 1557 | 1504 | 1462 |
| 17.5 | 3035 | 2848 | 2784 | 2513 | 2005 | 1682 | 1481 | 1385 | 1332 | 1287 |
| 20.0 | 3095 | 2810 | 2635 | 2351 | 1848 | 1558 | 1334 | 1229 | 1174 | 1145 |
| 22.5 | 3194 | 2802 | 2550 | 2327 | 1743 | 1408 | 1193 | 1076 | 1034 | 1020 |
| 25.0 | 3224 | 2785 | 2521 | 2215 | 1577 | 1272 | 1051 | 936 | 924 | 933 |
| 27.5 | 3244 | 2843 | 2512 | 2050 | 1470 | 1157 | 917 | 817 | 831 | 842 |

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**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : CRUS-AC-LW-40.IES**

**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **30.0** | 3336 | 2918 | 2451 | 1935 | 1460 | 1025 | 795 | 709 | 721 | 712 |
| **32.5** | 3402 | 2883 | 2380 | 1976 | 1415 | 918 | 692 | 608 | 611 | 611 |
| **35.0** | 3339 | 2817 | 2332 | 1991 | 1275 | 834 | 613 | 531 | 536 | 574 |
| **37.5** | 3163 | 2712 | 2302 | 1831 | 1141 | 778 | 556 | 483 | 495 | 557 |
| **40.0** | 3051 | 2638 | 2317 | 1662 | 1058 | 722 | 524 | 458 | 472 | 524 |
| **42.5** | 2954 | 2586 | 2291 | 1577 | 1020 | 674 | 503 | 441 | 446 | 475 |
| **45.0** | 2879 | 2570 | 2243 | 1551 | 1011 | 646 | 487 | 424 | 418 | 428 |
| **47.5** | 2847 | 2638 | 2239 | 1581 | 1077 | 646 | 476 | 407 | 392 | 393 |
| **50.0** | 2775 | 2672 | 2245 | 1659 | 1166 | 674 | 469 | 388 | 366 | 370 |
| **52.5** | 2666 | 2588 | 2193 | 1756 | 1216 | 707 | 466 | 370 | 345 | 346 |
| **55.0** | 2468 | 2422 | 2113 | 1803 | 1244 | 726 | 461 | 354 | 324 | 324 |
| **57.5** | 2281 | 2196 | 1983 | 1797 | 1253 | 744 | 459 | 338 | 303 | 297 |
| **60.0** | 2124 | 2005 | 1844 | 1761 | 1226 | 752 | 458 | 321 | 278 | 270 |
| **62.5** | 1905 | 1811 | 1700 | 1649 | 1181 | 745 | 449 | 303 | 258 | 257 |
| **65.0** | 1650 | 1593 | 1537 | 1468 | 1123 | 721 | 425 | 286 | 240 | 241 |
| **67.5** | 1425 | 1382 | 1362 | 1304 | 1044 | 668 | 391 | 265 | 223 | 224 |
| **70.0** | 1242 | 1199 | 1183 | 1181 | 942 | 609 | 359 | 245 | 206 | 208 |
| **72.5** | 1047 | 984 | 990 | 1005 | 815 | 554 | 327 | 218 | 184 | 190 |
| **75.0** | 848 | 783 | 773 | 782 | 654 | 480 | 289 | 196 | 161 | 163 |
| **77.5** | 595 | 519 | 535 | 569 | 450 | 411 | 243 | 164 | 142 | 144 |
| **80.0** | 374 | 276 | 291 | 360 | 310 | 291 | 186 | 134 | 114 | 120 |
| **82.5** | 233 | 174 | 130 | 211 | 199 | 159 | 88 | 96 | 89 | 95 |
| **85.0** | 112 | 93 | 68 | 98 | 102 | 82 | 58 | 67 | 64 | 69 |
| **87.5** | 45 | 43 | 41 | 46 | 43 | 46 | 42 | 45 | 45 | 46 |
| **90.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| **Vert. Angles** | **Horizontal Angles** | |
|---|---|---|
| | **175.0** | **180.0** |
| **0.0** | 3876 | 3876 |
| **2.5** | 3811 | 3791 |
| **5.0** | 3195 | 3178 |
| **7.5** | 2319 | 2300 |
| **10.0** | 1859 | 1844 |
| **12.5** | 1636 | 1629 |
| **15.0** | 1434 | 1437 |
| **17.5** | 1263 | 1253 |
| **20.0** | 1115 | 1112 |
| **22.5** | 1003 | 1001 |
| **25.0** | 926 | 925 |
| **27.5** | 815 | 809 |
| **30.0** | 680 | 675 |
| **32.5** | 611 | 611 |
| **35.0** | 596 | 600 |
| **37.5** | 578 | 581 |
| **40.0** | 538 | 535 |
| **42.5** | 476 | 472 |
| **45.0** | 426 | 422 |
| **47.5** | 396 | 392 |
| **50.0** | 371 | 370 |
| **52.5** | 347 | 342 |
| **55.0** | 322 | 319 |
| **57.5** | 289 | 284 |
| **60.0** | 261 | 259 |
| **62.5** | 258 | 255 |
| **65.0** | 253 | 249 |

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**CANDELA TABULATION - (Cont.)**

| | | |
|---|---|---|
| **67.5** | 232 | 228 |
| **70.0** | 209 | 200 |
| **72.5** | 184 | 174 |
| **75.0** | 153 | 142 |
| **77.5** | 123 | 111 |
| **80.0** | 104 | 92 |
| **82.5** | 93 | 84 |
| **85.0** | 70 | 63 |
| **87.5** | 47 | 44 |
| **90.0** | 0 | 0 |

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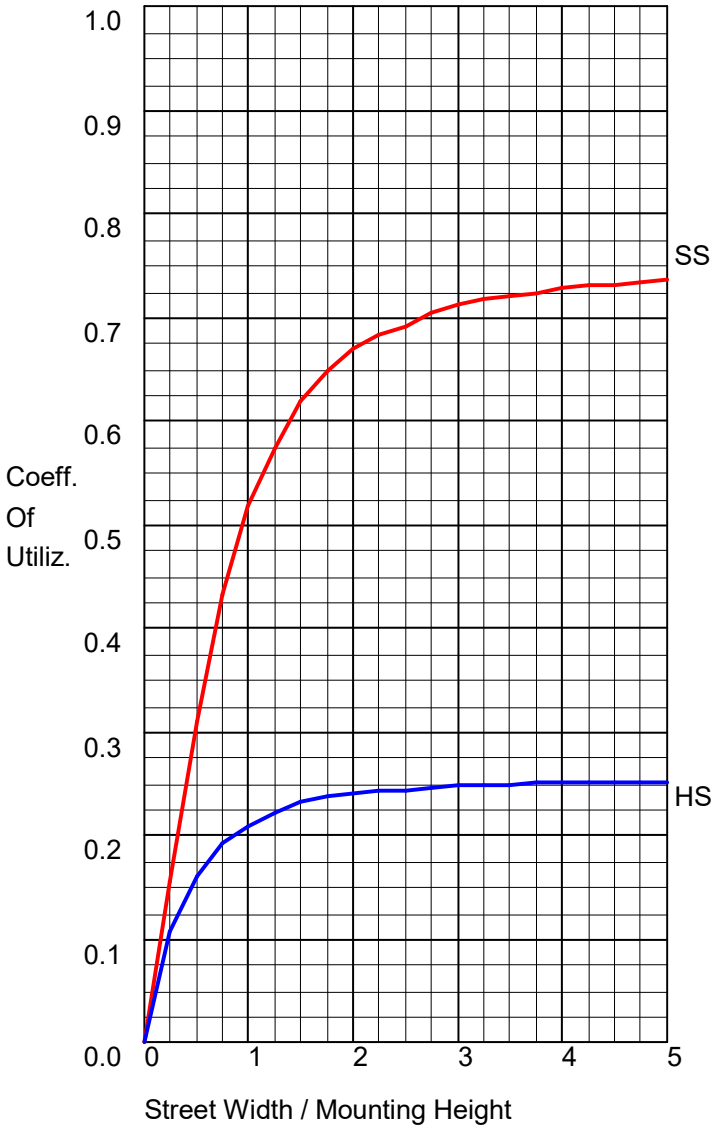
**COEFFICIENTS OF UTILIZATION**




**FLUX DISTRIBUTION**

| | Lumens | Percent Of Luminaire |
|---|---|---|
| Downward Street Side | 6984.2 | 74.5 |
| Downward House Side | 2394.3 | 25.5 |
| Downward Total | 9378.5 | 100.0 |
| | | |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| | | |
| Total Flux | 9378.5 | 100.0 |

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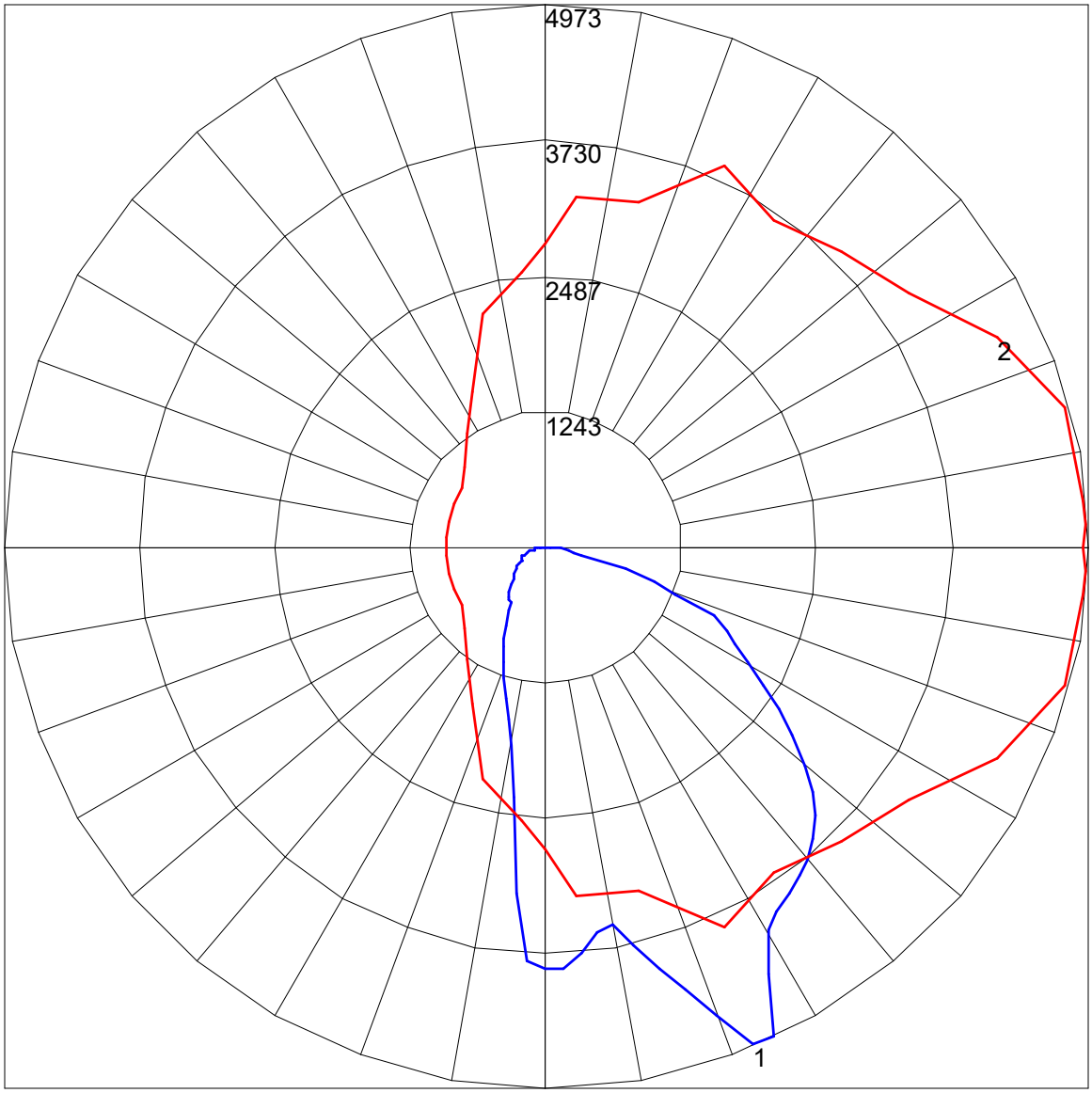
**POLAR GRAPH**




Maximum Candela = 4973  Located At Horizontal Angle = 2.5, Vertical Angle = 25
# 1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)

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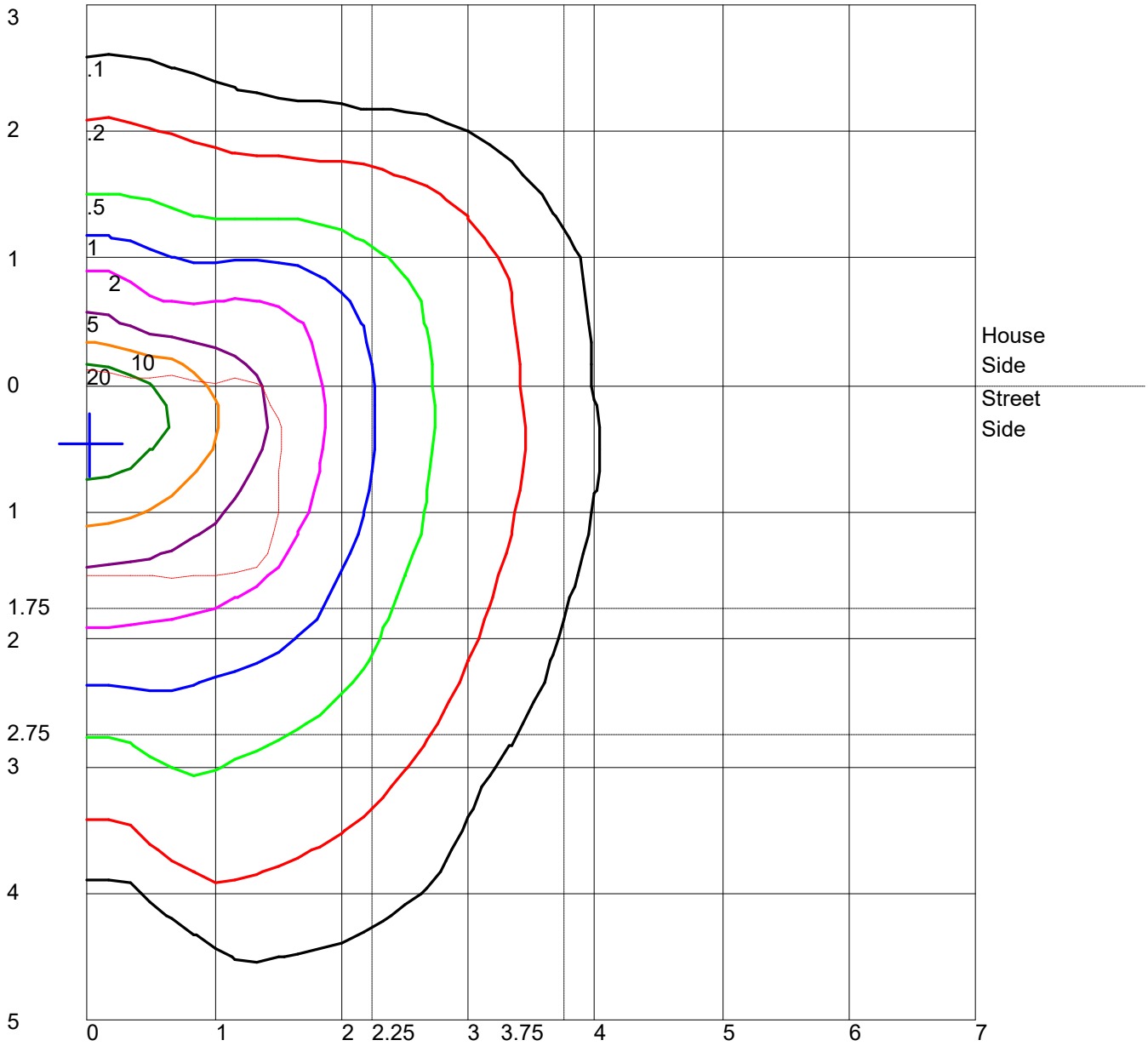
**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**




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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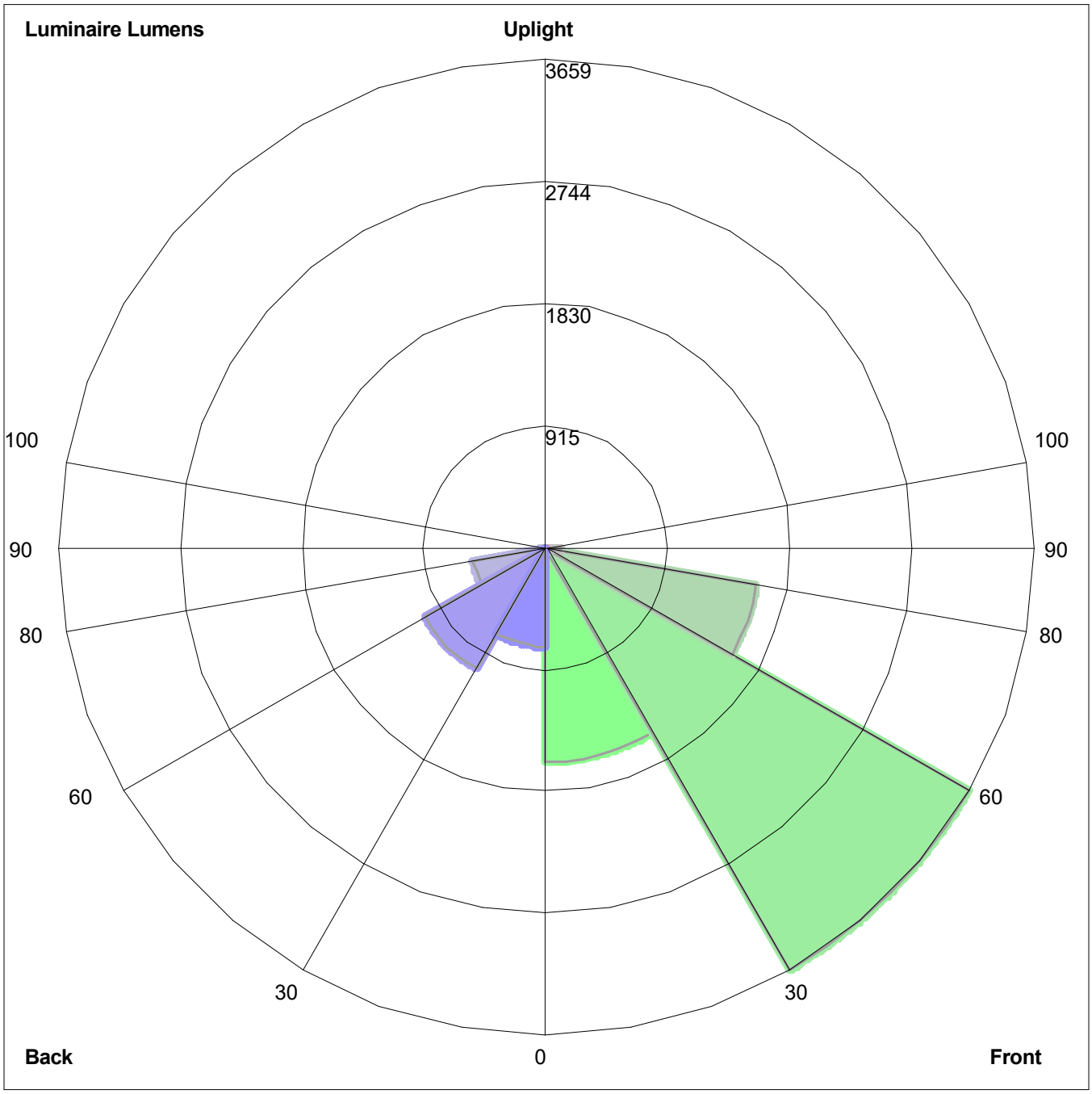
**LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH**




Luminaire Lumens:
Front: Low= 1606.0, Medium=3659.3, High=1604.9, Very High=114.0
Back: Low=744.0, Medium=1046.5, High=555.3, Very High=48.4
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2

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