**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : CRUS-AC-VLW-30.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-VLW-30
[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 | 7681 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 128 |
| Total Luminaire Watts | 60 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 4072 |
| Maximum Candela Angle | 2.5H 25V |
| Maximum Candela (<90 Degrees Vertical) | 4072 |
| 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 | 795 (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) | 1315.3 | N.A. | 17.1 |
| FM - Front-Medium (30-60) | 2997.0 | N.A. | 39.0 |
| FH - Front-High (60-80) | 1314.4 | N.A. | 17.1 |
| FVH - Front-Very High (80-90) | 93.4 | N.A. | 1.2 |
| BL - Back-Low (0-30) | 609.4 | N.A. | 7.9 |
| BM - Back-Medium (30-60) | 857.2 | N.A. | 11.2 |
| BH - Back-High (60-80) | 454.8 | N.A. | 5.9 |
| BVH - Back-Very High (80-90) | 39.6 | 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 | 7681.1 | N.A. | 100.0 |
| BUG Rating | B2-U0-G1 | | |

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**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : CRUS-AC-VLW-30.IES**

**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 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 |
| 2.5 | 3195 | 3179 | 3184 | 3193 | 3192 | 3185 | 3198 | 3198 | 3198 | 3200 |
| 5.0 | 3083 | 3074 | 3064 | 3076 | 3097 | 3097 | 3123 | 3139 | 3134 | 3157 |
| 7.5 | 2925 | 2921 | 2914 | 2928 | 2954 | 2980 | 3007 | 3028 | 3043 | 3049 |
| 10.0 | 2868 | 2881 | 2873 | 2876 | 2857 | 2860 | 2880 | 2917 | 2948 | 2905 |
| 12.5 | 3089 | 3070 | 3064 | 3028 | 2969 | 2879 | 2863 | 2824 | 2852 | 2837 |
| 15.0 | 3276 | 3280 | 3267 | 3238 | 3175 | 3041 | 2929 | 2888 | 2757 | 2795 |
| 17.5 | 3508 | 3501 | 3507 | 3472 | 3354 | 3188 | 3036 | 3002 | 2794 | 2795 |
| 20.0 | 3757 | 3746 | 3754 | 3709 | 3559 | 3320 | 3104 | 3011 | 2936 | 2771 |
| 22.5 | 4051 | 4050 | 4040 | 3940 | 3697 | 3381 | 3146 | 3002 | 3065 | 2725 |
| 25.0 | 4050 | 4072 | 4062 | 4031 | 3743 | 3334 | 3129 | 2992 | 3154 | 2686 |
| 27.5 | 3618 | 3620 | 3629 | 3660 | 3531 | 3276 | 3160 | 3012 | 3081 | 2679 |
| 30.0 | 3342 | 3333 | 3331 | 3307 | 3269 | 3206 | 3185 | 3052 | 3054 | 2703 |
| 32.5 | 3240 | 3244 | 3224 | 3200 | 3168 | 3137 | 3113 | 3060 | 3219 | 2716 |
| 35.0 | 3191 | 3187 | 3188 | 3155 | 3117 | 3086 | 3064 | 3002 | 3151 | 2764 |
| 37.5 | 3140 | 3125 | 3137 | 3117 | 3060 | 3022 | 3029 | 2993 | 2993 | 2828 |
| 40.0 | 3076 | 3060 | 3064 | 3030 | 2988 | 2951 | 2959 | 2996 | 2877 | 2796 |
| 42.5 | 2993 | 2982 | 2977 | 2952 | 2897 | 2867 | 2867 | 2936 | 2856 | 2713 |
| 45.0 | 2870 | 2857 | 2863 | 2831 | 2809 | 2776 | 2763 | 2803 | 2796 | 2577 |
| 47.5 | 2727 | 2734 | 2724 | 2707 | 2705 | 2685 | 2662 | 2656 | 2684 | 2532 |
| 50.0 | 2550 | 2555 | 2551 | 2552 | 2574 | 2570 | 2552 | 2523 | 2596 | 2499 |
| 52.5 | 2329 | 2331 | 2337 | 2389 | 2449 | 2439 | 2434 | 2421 | 2417 | 2481 |
| 55.0 | 2123 | 2133 | 2126 | 2195 | 2294 | 2309 | 2336 | 2326 | 2264 | 2357 |
| 57.5 | 1938 | 1945 | 1946 | 2004 | 2134 | 2188 | 2251 | 2224 | 2118 | 2080 |
| 60.0 | 1755 | 1753 | 1766 | 1834 | 1990 | 2087 | 2172 | 2116 | 1964 | 1837 |
| 62.5 | 1601 | 1601 | 1610 | 1662 | 1823 | 1994 | 2080 | 1963 | 1817 | 1642 |
| 65.0 | 1515 | 1509 | 1522 | 1588 | 1682 | 1887 | 1961 | 1801 | 1643 | 1421 |
| 67.5 | 1340 | 1366 | 1389 | 1584 | 1613 | 1791 | 1814 | 1579 | 1422 | 1239 |
| 70.0 | 1022 | 1039 | 1067 | 1585 | 1571 | 1702 | 1611 | 1347 | 1220 | 1074 |
| 72.5 | 843 | 850 | 876 | 1536 | 1499 | 1524 | 1394 | 1125 | 998 | 906 |
| 75.0 | 608 | 619 | 636 | 1397 | 1345 | 1251 | 1093 | 898 | 764 | 727 |
| 77.5 | 274 | 273 | 300 | 979 | 1081 | 1016 | 722 | 657 | 557 | 515 |
| 80.0 | 204 | 208 | 221 | 650 | 795 | 752 | 496 | 413 | 358 | 324 |
| 82.5 | 174 | 175 | 189 | 446 | 463 | 375 | 295 | 180 | 206 | 174 |
| 85.0 | 113 | 119 | 129 | 227 | 184 | 134 | 132 | 71 | 95 | 84 |
| 87.5 | 36 | 39 | 41 | 63 | 58 | 52 | 43 | 33 | 35 | 35 |
| 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 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 | 3175 |
| 2.5 | 3185 | 3198 | 3185 | 3185 | 3177 | 3175 | 3142 | 3132 | 3137 | 3110 |
| 5.0 | 3150 | 3155 | 3149 | 3116 | 3075 | 2992 | 2898 | 2810 | 2686 | 2650 |
| 7.5 | 3042 | 3050 | 3036 | 2975 | 2863 | 2661 | 2415 | 2170 | 2017 | 1950 |
| 10.0 | 2883 | 2887 | 2854 | 2768 | 2557 | 2223 | 1915 | 1683 | 1586 | 1544 |
| 12.5 | 2701 | 2686 | 2655 | 2494 | 2212 | 1823 | 1548 | 1443 | 1388 | 1350 |
| 15.0 | 2548 | 2480 | 2444 | 2243 | 1894 | 1540 | 1356 | 1276 | 1232 | 1197 |
| 17.5 | 2486 | 2333 | 2280 | 2058 | 1642 | 1377 | 1214 | 1135 | 1091 | 1054 |
| 20.0 | 2534 | 2301 | 2158 | 1926 | 1513 | 1277 | 1093 | 1007 | 961 | 937 |
| 22.5 | 2616 | 2295 | 2089 | 1906 | 1428 | 1154 | 976 | 881 | 847 | 836 |
| 25.0 | 2640 | 2281 | 2065 | 1814 | 1292 | 1041 | 860 | 766 | 756 | 764 |
| 27.5 | 2656 | 2328 | 2058 | 1679 | 1203 | 948 | 751 | 669 | 680 | 689 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **30.0** | 2732 | 2390 | 2007 | 1584 | 1196 | 840 | 651 | 581 | 590 | 582 |
| **32.5** | 2786 | 2362 | 1949 | 1618 | 1158 | 751 | 567 | 498 | 500 | 500 |
| **35.0** | 2734 | 2307 | 1910 | 1631 | 1044 | 683 | 502 | 434 | 439 | 470 |
| **37.5** | 2591 | 2221 | 1885 | 1500 | 934 | 637 | 456 | 395 | 406 | 456 |
| **40.0** | 2499 | 2160 | 1899 | 1361 | 867 | 592 | 430 | 375 | 386 | 430 |
| **42.5** | 2420 | 2118 | 1877 | 1292 | 836 | 552 | 412 | 361 | 365 | 389 |
| **45.0** | 2358 | 2105 | 1838 | 1270 | 828 | 530 | 399 | 347 | 343 | 351 |
| **47.5** | 2332 | 2160 | 1834 | 1294 | 883 | 529 | 390 | 333 | 322 | 323 |
| **50.0** | 2273 | 2188 | 1839 | 1359 | 955 | 552 | 385 | 317 | 300 | 303 |
| **52.5** | 2184 | 2120 | 1796 | 1438 | 995 | 579 | 381 | 303 | 283 | 283 |
| **55.0** | 2021 | 1984 | 1731 | 1476 | 1019 | 595 | 378 | 290 | 265 | 265 |
| **57.5** | 1868 | 1798 | 1624 | 1472 | 1026 | 609 | 376 | 277 | 249 | 244 |
| **60.0** | 1740 | 1642 | 1510 | 1443 | 1004 | 616 | 375 | 263 | 228 | 221 |
| **62.5** | 1560 | 1484 | 1392 | 1350 | 967 | 610 | 369 | 248 | 211 | 210 |
| **65.0** | 1351 | 1305 | 1259 | 1203 | 919 | 590 | 348 | 235 | 196 | 197 |
| **67.5** | 1167 | 1132 | 1116 | 1068 | 855 | 547 | 320 | 217 | 183 | 184 |
| **70.0** | 1017 | 981 | 969 | 968 | 771 | 499 | 294 | 201 | 169 | 170 |
| **72.5** | 857 | 807 | 810 | 824 | 668 | 454 | 267 | 179 | 151 | 156 |
| **75.0** | 695 | 642 | 633 | 640 | 536 | 393 | 236 | 160 | 131 | 133 |
| **77.5** | 487 | 425 | 438 | 465 | 369 | 337 | 200 | 134 | 116 | 118 |
| **80.0** | 307 | 226 | 238 | 295 | 254 | 238 | 152 | 109 | 93 | 98 |
| **82.5** | 191 | 143 | 106 | 173 | 162 | 130 | 71 | 79 | 73 | 78 |
| **85.0** | 91 | 76 | 55 | 81 | 83 | 67 | 47 | 55 | 53 | 56 |
| **87.5** | 38 | 36 | 34 | 38 | 36 | 38 | 35 | 37 | 37 | 38 |
| **90.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| **Vert. Angles** | **Horizontal Angles** | |
|---|---|---|
| | **175.0** | **180.0** |
| **0.0** | 3175 | 3175 |
| **2.5** | 3122 | 3106 |
| **5.0** | 2616 | 2604 |
| **7.5** | 1899 | 1884 |
| **10.0** | 1522 | 1510 |
| **12.5** | 1340 | 1334 |
| **15.0** | 1174 | 1177 |
| **17.5** | 1035 | 1026 |
| **20.0** | 914 | 911 |
| **22.5** | 822 | 821 |
| **25.0** | 759 | 758 |
| **27.5** | 668 | 663 |
| **30.0** | 557 | 553 |
| **32.5** | 500 | 501 |
| **35.0** | 488 | 492 |
| **37.5** | 474 | 476 |
| **40.0** | 440 | 438 |
| **42.5** | 390 | 386 |
| **45.0** | 349 | 346 |
| **47.5** | 325 | 322 |
| **50.0** | 304 | 304 |
| **52.5** | 284 | 280 |
| **55.0** | 264 | 262 |
| **57.5** | 236 | 233 |
| **60.0** | 214 | 212 |
| **62.5** | 211 | 208 |
| **65.0** | 207 | 204 |

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**CANDELA TABULATION - (Cont.)**

| | | |
|---|---|---|
| **67.5** | 189 | 187 |
| **70.0** | 171 | 163 |
| **72.5** | 151 | 143 |
| **75.0** | 126 | 116 |
| **77.5** | 100 | 90 |
| **80.0** | 85 | 76 |
| **82.5** | 76 | 68 |
| **85.0** | 57 | 52 |
| **87.5** | 38 | 37 |
| **90.0** | 0 | 0 |

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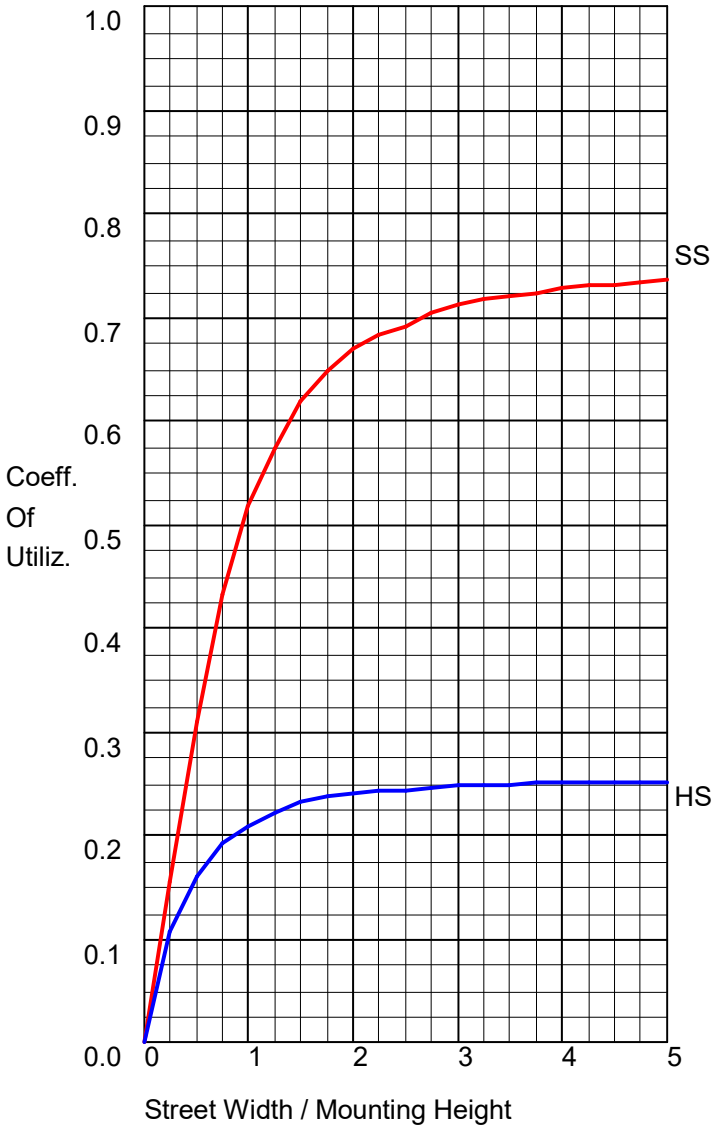
**COEFFICIENTS OF UTILIZATION**




**FLUX DISTRIBUTION**

| | Lumens | Percent Of Luminaire |
|---|---|---|
| Downward Street Side | 5720.1 | 74.5 |
| Downward House Side | 1961.0 | 25.5 |
| Downward Total | 7681.1 | 100.0 |
| | | |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| | | |
| Total Flux | 7681.1 | 100.0 |

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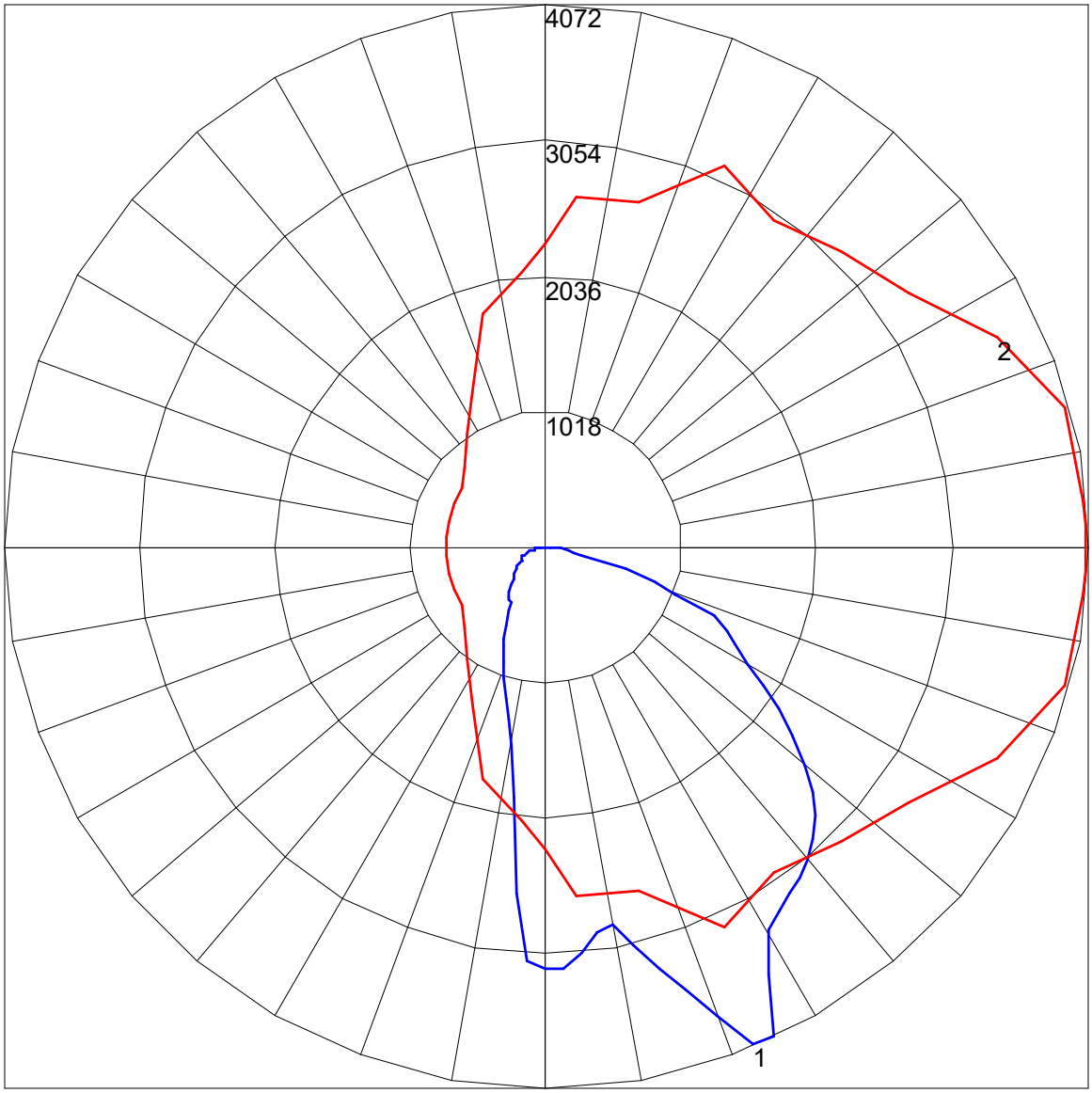
**POLAR GRAPH**




Maximum Candela = 4072  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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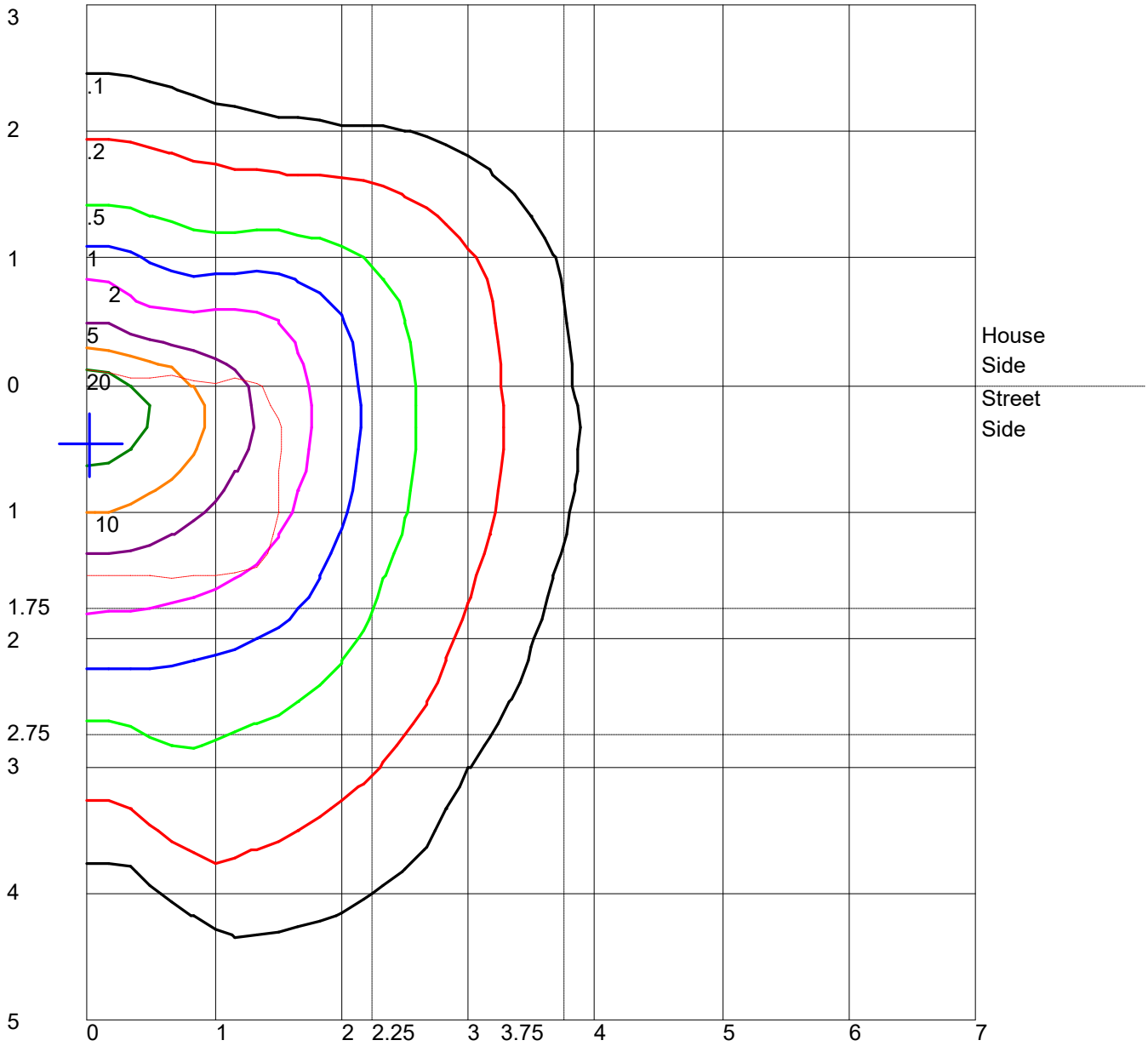
**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**




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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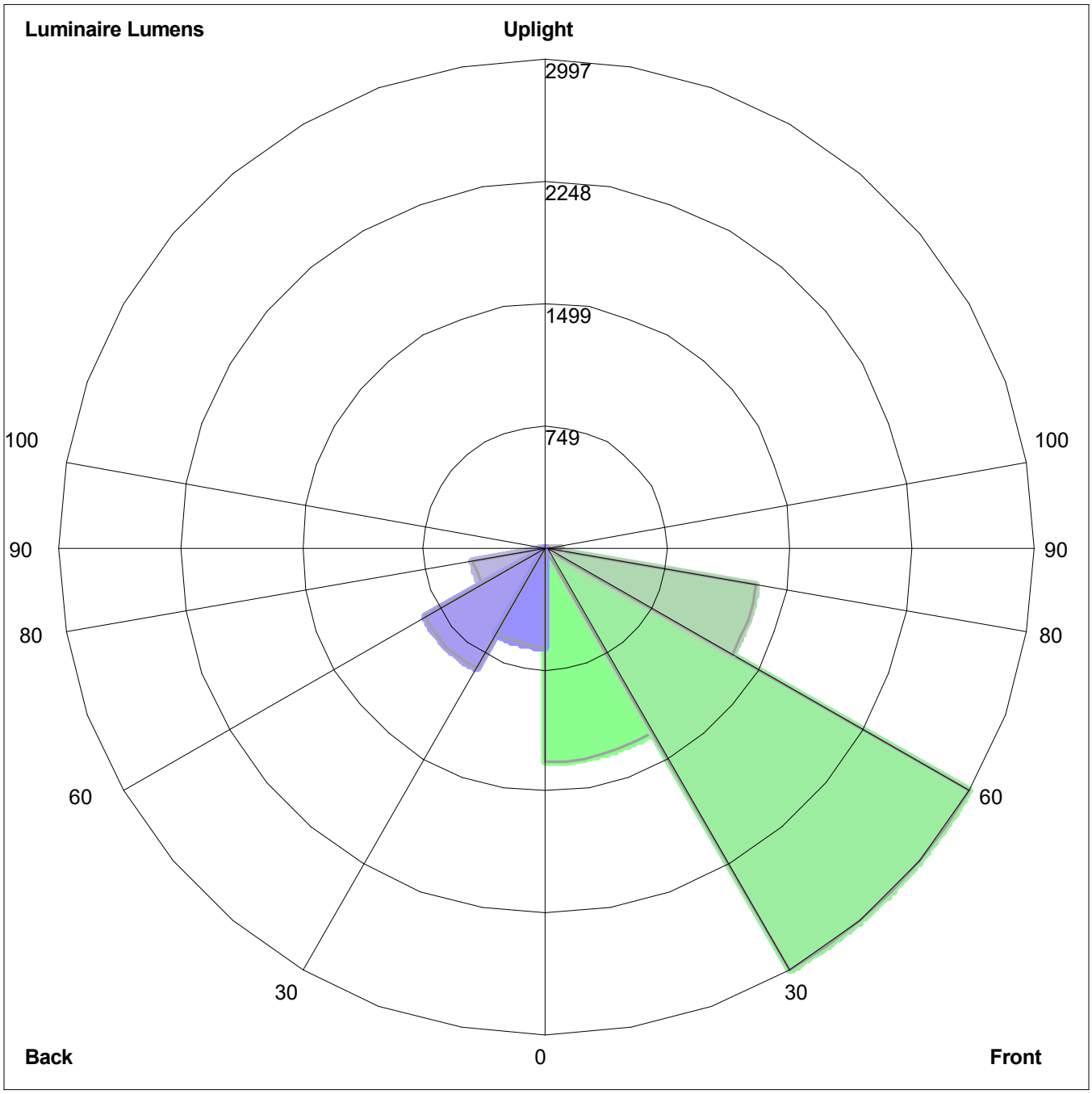
**LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH**




Luminaire Lumens:
Front: Low=1315.3, Medium= 2997.0, High=1314.4, Very High=93.4
Back: Low=609.4, Medium=857.2, High=454.8, Very High=39.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1

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