



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-35-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7922
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]09/27/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XMR-5W-LED-35-30
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

| | |
|---|----------------------------------|
| IES Classification | Type VS |
| Longitudinal Classification | Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 30756 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 97 |
| Total Luminaire Watts | 317.6 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 16230.967 |
| Maximum Candela Angle | 45H 72.5V |
| Maximum Candela (<90 Degrees Vertical) | 16230.967 |
| Maximum Candela Angle (<90 Degrees Vertical) | 45H 72.5V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 1896.752 (6.2% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1209.4 | N.A. | 3.9 |
| FM - Front-Medium (30-60) | 6305.8 | N.A. | 20.5 |
| FH - Front-High (60-80) | 7735.6 | N.A. | 25.2 |
| FVH - Front-Very High (80-90) | 127.3 | N.A. | 0.4 |
| BL - Back-Low (0-30) | 1209.4 | N.A. | 3.9 |
| BM - Back-Medium (30-60) | 6305.8 | N.A. | 20.5 |
| BH - Back-High (60-80) | 7735.6 | N.A. | 25.2 |
| BVH - Back-Very High (80-90) | 127.3 | N.A. | 0.4 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 30756.2 | N.A. | 100.0 |
| BUG Rating | B5-U0-G4 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | | |
|-------------------------|--------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> | |
| 0.0 | 2338.020 | 2338.020 | 2338.020 | 2338.020 | 2338.020 | 2338.020 | 2338.020 | 2338.020 | 2338.020 | 2338.020 | |
| 2.5 | 2336.276 | 2343.252 | 2344.124 | 2347.612 | 2348.485 | 2345.868 | 2346.740 | 2344.996 | 2339.764 | 2340.636 | |
| 5.0 | 2331.043 | 2339.764 | 2341.508 | 2347.612 | 2353.717 | 2350.229 | 2353.717 | 2353.717 | 2349.357 | 2351.101 | |
| 7.5 | 2325.811 | 2331.915 | 2339.764 | 2349.357 | 2359.821 | 2361.566 | 2369.414 | 2372.903 | 2368.542 | 2370.286 | |
| 10.0 | 2343.252 | 2345.868 | 2358.077 | 2371.158 | 2387.728 | 2392.960 | 2402.553 | 2406.913 | 2403.425 | 2405.169 | |
| 12.5 | 2393.832 | 2399.937 | 2412.146 | 2425.227 | 2446.156 | 2454.877 | 2462.726 | 2460.110 | 2458.365 | 2460.982 | |
| 15.0 | 2484.527 | 2490.632 | 2507.201 | 2528.131 | 2542.956 | 2546.444 | 2549.061 | 2541.212 | 2536.852 | 2538.596 | |
| 17.5 | 2594.408 | 2601.385 | 2626.675 | 2659.814 | 2678.999 | 2676.383 | 2665.046 | 2650.221 | 2635.396 | 2637.140 | |
| 20.0 | 2714.754 | 2726.963 | 2764.462 | 2813.298 | 2846.437 | 2846.437 | 2819.402 | 2780.159 | 2749.637 | 2745.276 | |
| 22.5 | 2842.076 | 2856.901 | 2916.202 | 2985.968 | 3044.396 | 3046.141 | 2999.049 | 2930.155 | 2876.959 | 2861.262 | |
| 25.0 | 2978.991 | 3000.793 | 3077.535 | 3176.079 | 3263.286 | 3275.495 | 3211.834 | 3110.674 | 3022.595 | 2992.072 | |
| 27.5 | 3130.731 | 3156.021 | 3252.821 | 3383.632 | 3509.210 | 3532.756 | 3457.758 | 3316.482 | 3198.753 | 3142.940 | |
| 30.0 | 3289.448 | 3319.971 | 3439.444 | 3612.986 | 3769.087 | 3810.946 | 3726.355 | 3550.197 | 3392.352 | 3319.971 | |
| 32.5 | 3460.374 | 3490.024 | 3633.044 | 3847.573 | 4052.509 | 4106.578 | 4019.371 | 3810.074 | 3606.010 | 3503.105 | |
| 35.0 | 3632.172 | 3667.054 | 3833.620 | 4093.497 | 4341.165 | 4428.372 | 4329.828 | 4079.544 | 3823.155 | 3698.449 | |
| 37.5 | 3820.539 | 3865.014 | 4050.765 | 4354.246 | 4645.517 | 4777.200 | 4655.982 | 4374.303 | 4055.126 | 3897.281 | |
| 40.0 | 4023.731 | 4077.799 | 4282.736 | 4624.587 | 4973.415 | 5133.004 | 4994.345 | 4673.423 | 4299.305 | 4109.194 | |
| 42.5 | 4268.783 | 4315.002 | 4533.020 | 4915.859 | 5303.930 | 5482.704 | 5336.196 | 4981.264 | 4569.647 | 4357.734 | |
| 45.0 | 4545.229 | 4594.065 | 4813.826 | 5230.676 | 5644.037 | 5841.125 | 5695.489 | 5304.802 | 4878.360 | 4641.157 | |
| 47.5 | 4876.616 | 4930.684 | 5138.237 | 5565.551 | 5992.865 | 6210.883 | 6060.015 | 5651.014 | 5204.514 | 4951.614 | |
| 50.0 | 5219.339 | 5269.919 | 5496.657 | 5920.483 | 6374.832 | 6602.442 | 6439.365 | 6012.051 | 5564.679 | 5285.616 | |
| 52.5 | 5547.237 | 5599.562 | 5851.590 | 6287.625 | 6762.031 | 6995.746 | 6827.436 | 6399.250 | 5966.703 | 5633.572 | |
| 55.0 | 5935.309 | 5980.656 | 6229.196 | 6662.615 | 7178.008 | 7432.653 | 7241.669 | 6775.112 | 6351.286 | 6005.074 | |
| 57.5 | 6392.273 | 6441.109 | 6695.754 | 7089.929 | 7619.276 | 7907.059 | 7694.274 | 7205.042 | 6845.750 | 6490.817 | |
| 60.0 | 6913.771 | 6983.537 | 7222.484 | 7581.777 | 8138.157 | 8452.103 | 8224.492 | 7753.574 | 7408.235 | 7037.605 | |
| 62.5 | 7613.171 | 7678.576 | 7912.291 | 8188.737 | 8805.291 | 9195.978 | 8881.161 | 8375.360 | 8127.693 | 7777.120 | |
| 65.0 | 8320.420 | 8390.186 | 8617.796 | 8957.031 | 9671.256 | 10184.034 | 9815.148 | 9196.850 | 8934.357 | 8630.005 | |
| 67.5 | 9022.436 | 9132.317 | 9487.250 | 9954.679 | 10948.839 | 11707.540 | 11126.741 | 10419.493 | 10204.091 | 9809.044 | |
| 70.0 | 8714.596 | 8886.393 | 9761.952 | 10860.760 | 12558.680 | 14270.554 | 12986.867 | 11624.693 | 10501.467 | 9397.426 | |
| 72.5 | 5505.378 | 5896.065 | 7116.091 | 9477.657 | 12754.896 | 16230.967 | 13347.904 | 9966.016 | 7294.866 | 5867.287 | |
| 75.0 | 1929.019 | 2058.957 | 2792.368 | 4866.151 | 9241.326 | 13756.032 | 9654.687 | 5222.827 | 2703.417 | 1878.439 | |
| 77.5 | 562.485 | 577.310 | 754.341 | 1337.755 | 3469.095 | 6823.948 | 3733.332 | 1480.775 | 746.492 | 599.112 | |
| 80.0 | 304.352 | 305.225 | 390.687 | 548.532 | 985.439 | 1896.752 | 1111.889 | 664.517 | 418.594 | 358.421 | |
| 82.5 | 140.403 | 144.764 | 192.727 | 284.295 | 479.639 | 747.364 | 525.858 | 326.154 | 201.448 | 192.727 | |
| 85.0 | 79.358 | 82.847 | 102.904 | 136.043 | 215.401 | 330.515 | 208.425 | 137.787 | 102.032 | 112.497 | |
| 87.5 | 41.859 | 42.731 | 53.196 | 68.021 | 86.335 | 106.393 | 77.614 | 54.940 | 43.604 | 41.859 | |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

**Vert.
Angles** **Horizontal Angles**

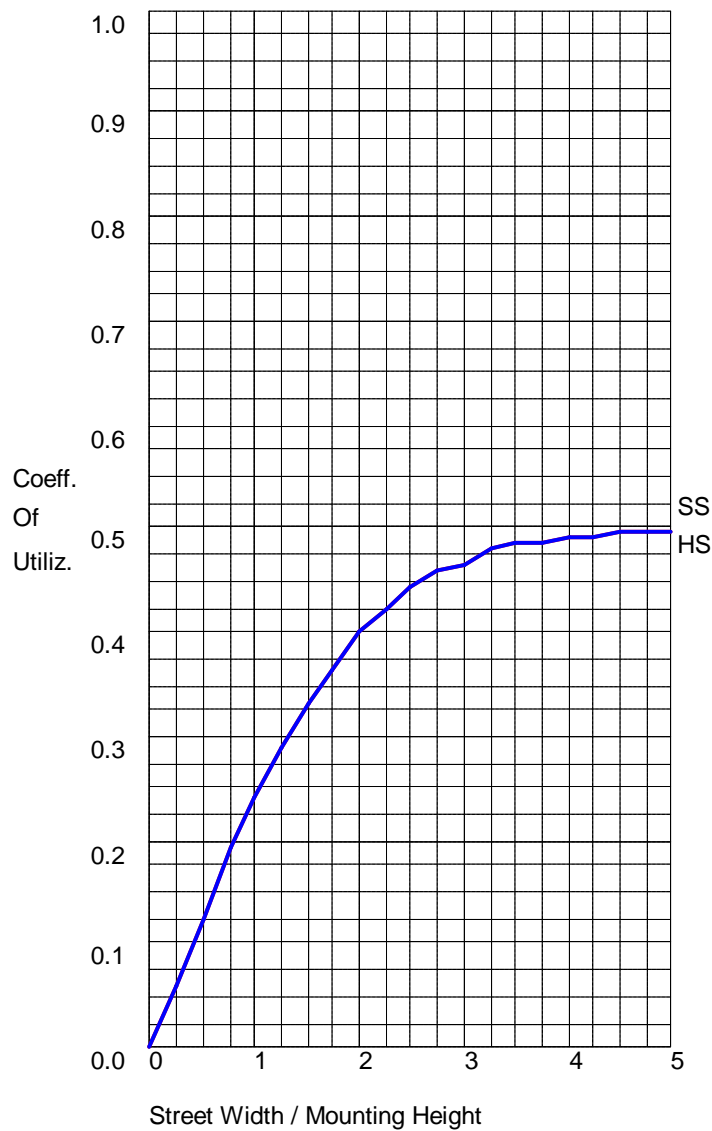
| | <u>90</u> |
|------|-----------|
| 0.0 | 2338.020 |
| 2.5 | 2337.148 |
| 5.0 | 2347.612 |
| 7.5 | 2365.926 |
| 10.0 | 2402.553 |
| 12.5 | 2458.365 |
| 15.0 | 2535.980 |
| 17.5 | 2631.035 |
| 20.0 | 2738.300 |
| 22.5 | 2857.773 |
| 25.0 | 2986.840 |
| 27.5 | 3135.964 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|----------|
| 30.0 | 3306.017 |
| 32.5 | 3487.408 |
| 35.0 | 3674.903 |
| 37.5 | 3871.119 |
| 40.0 | 4093.497 |
| 42.5 | 4335.932 |
| 45.0 | 4619.355 |
| 47.5 | 4921.091 |
| 50.0 | 5254.222 |
| 52.5 | 5616.131 |
| 55.0 | 5960.599 |
| 57.5 | 6441.981 |
| 60.0 | 6978.304 |
| 62.5 | 7736.133 |
| 65.0 | 8591.634 |
| 67.5 | 9740.150 |
| 70.0 | 9269.232 |
| 72.5 | 5601.306 |
| 75.0 | 1846.172 |
| 77.5 | 592.136 |
| 80.0 | 347.956 |
| 82.5 | 187.495 |
| 85.0 | 108.137 |
| 87.5 | 40.115 |
| 90.0 | 0.000 |

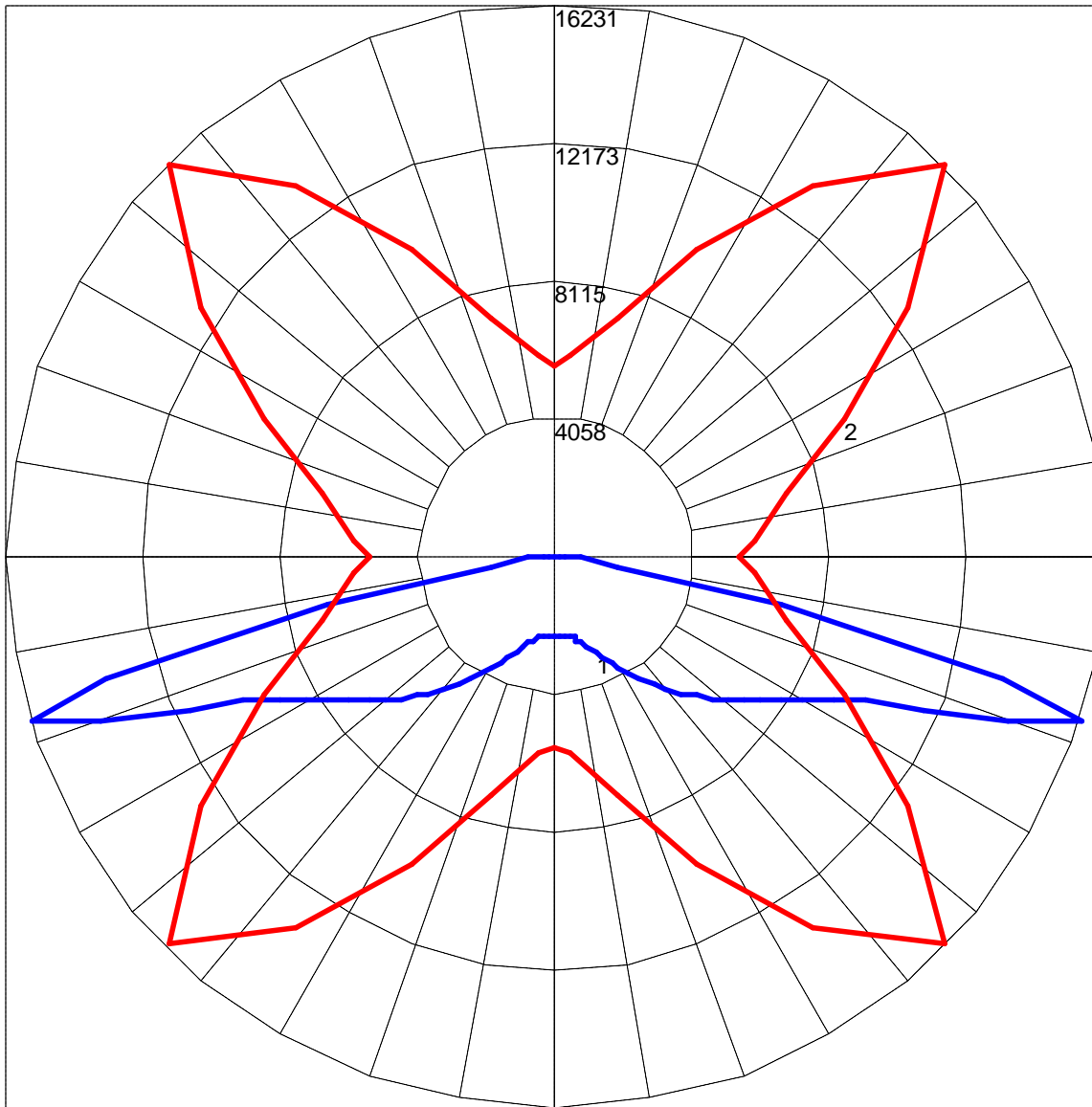
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

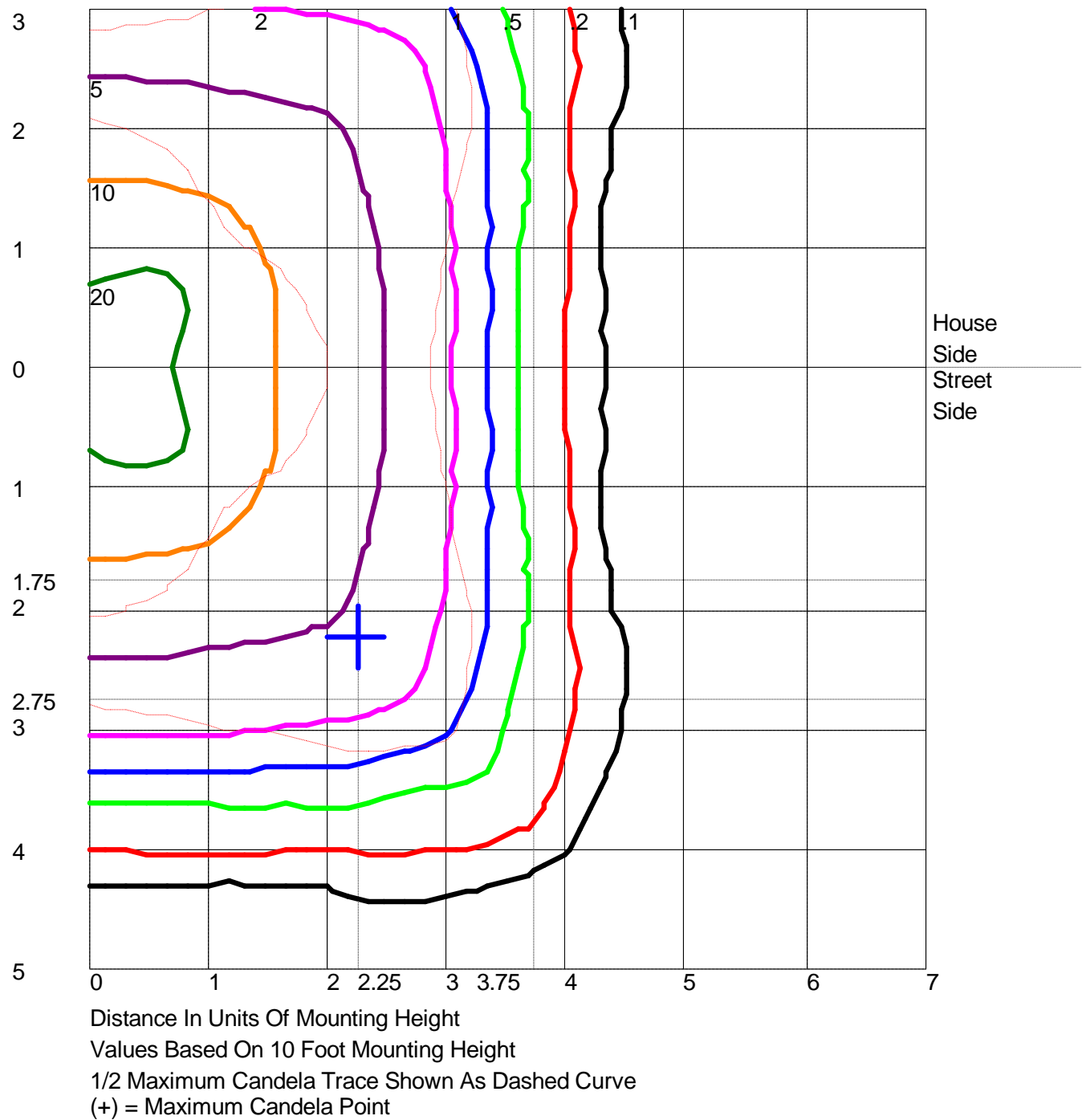
| | Lumens | Percent Of Luminaire |
|----------------------|---------|-------------------------|
| Downward Street Side | 15378.0 | 50.0 |
| Downward House Side | 15378.0 | 50.0 |
| Downward Total | 30756.0 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 30756.0 | 100.0 |

POLAR GRAPH

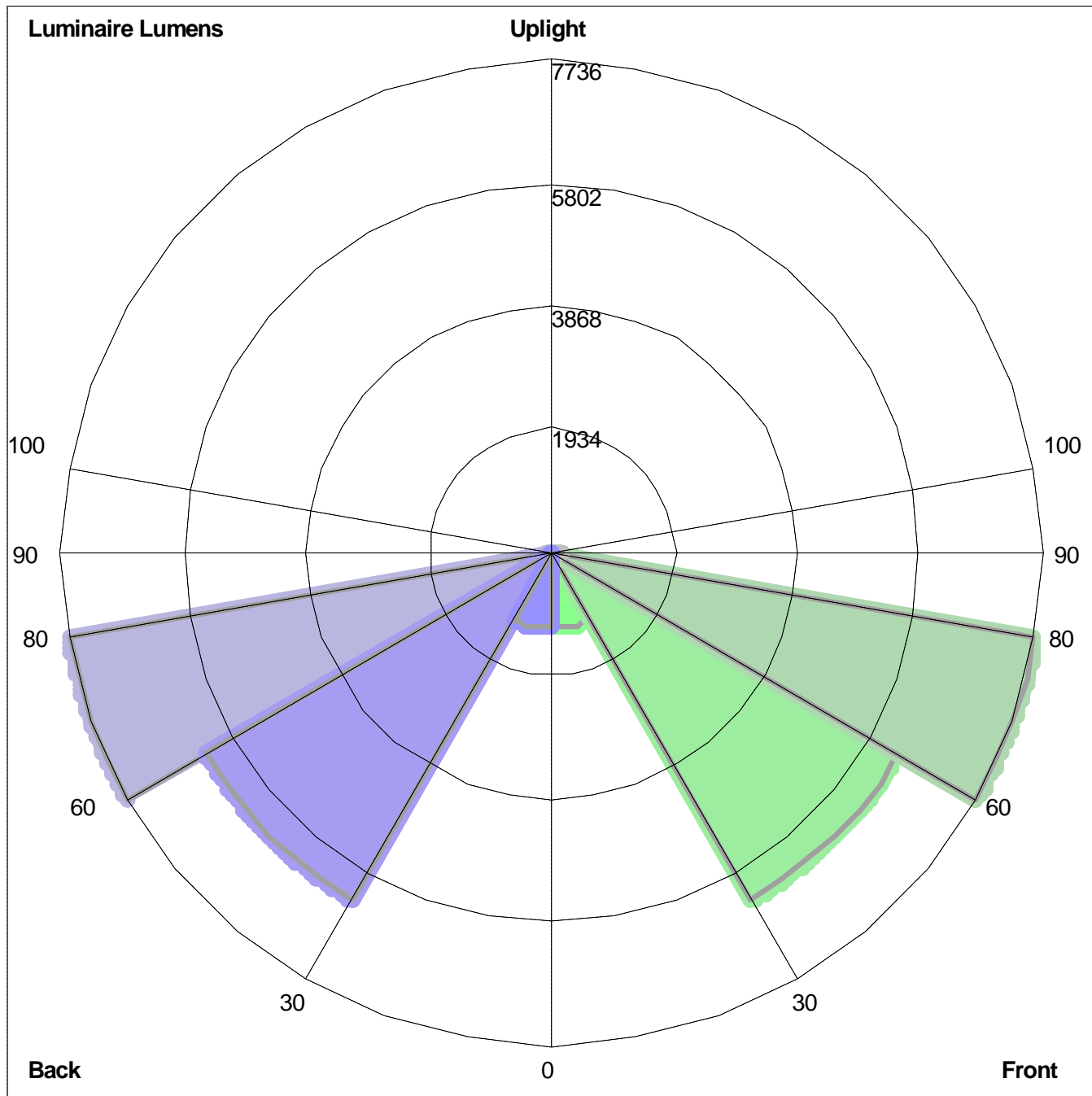


Maximum Candela = 16230.967 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1209.4, Medium=6305.8, High=7735.6, Very High=127.3
Back: Low=1209.4, Medium=6305.8, High=7735.6, Very High=127.3
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4