



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-35-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7767
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]05/02/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-5W-LED-35-40-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19988
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	313.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15862.875
Maximum Candela Angle	47.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	15862.875
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1284.467 (6.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1274.6	N.A.	6.4
FM - Front-Medium (30-60)	6977.4	N.A.	34.9
FH - Front-High (60-80)	7676.7	N.A.	38.4
FVH - Front-Very High (80-90)	94.5	N.A.	0.5
BL - Back-Low (0-30)	963.6	N.A.	4.8
BM - Back-Medium (30-60)	2022.7	N.A.	10.1
BH - Back-High (60-80)	971.3	N.A.	4.9
BVH - Back-Very High (80-90)	7.6	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	19988.4	N.A.	100.0
BUG Rating	B2-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177
2.5	2206.057	2211.817	2208.937	2208.937	2202.217	2202.217	2201.257	2196.457	2193.577	2185.897
5.0	2255.977	2263.656	2258.857	2256.937	2245.417	2241.577	2238.697	2229.097	2222.377	2207.977
7.5	2326.056	2334.696	2328.936	2326.056	2309.736	2301.096	2296.296	2283.816	2271.336	2251.177
10.0	2411.495	2423.015	2417.255	2415.335	2398.055	2388.455	2390.375	2366.375	2346.216	2318.376
12.5	2514.214	2529.574	2524.774	2526.694	2524.774	2504.614	2509.414	2477.734	2447.975	2409.575
15.0	2641.893	2660.132	2660.132	2666.852	2674.532	2653.412	2656.292	2616.933	2572.773	2517.094
17.5	2789.731	2810.851	2817.571	2836.771	2855.010	2843.490	2832.931	2782.051	2718.692	2645.733
20.0	2948.129	2973.089	2990.369	3036.448	3067.168	3055.648	3043.168	2976.929	2889.570	2794.531
22.5	3120.928	3149.727	3187.167	3248.606	3302.366	3300.446	3282.206	3201.567	3090.208	2967.329
25.0	3313.886	3358.045	3396.445	3482.844	3557.723	3566.363	3549.083	3468.444	3318.686	3149.727
27.5	3524.123	3583.643	3649.882	3743.961	3836.120	3853.400	3834.200	3743.001	3555.803	3345.565
30.0	3727.641	3795.801	3888.920	4021.398	4138.517	4162.517	4139.477	4034.838	3812.120	3567.323
32.5	3947.479	4025.238	4135.637	4301.715	4454.354	4494.673	4467.794	4349.715	4114.517	3815.000
35.0	4179.797	4265.236	4401.554	4613.712	4782.670	4837.390	4809.550	4686.671	4411.154	4060.758
37.5	4438.994	4509.073	4678.991	4923.789	5131.147	5196.426	5164.746	5030.348	4713.551	4334.355
40.0	4669.391	4747.151	4946.829	5245.385	5493.063	5579.462	5545.862	5401.864	5044.748	4634.832
42.5	4962.188	5041.868	5244.426	5566.982	5868.419	5999.938	5987.458	5795.460	5389.384	4949.709
45.0	5278.985	5358.664	5569.862	5921.218	6276.415	6399.294	6383.934	6190.016	5736.900	5265.545
47.5	5603.462	5681.221	5901.059	6308.094	6697.850	6829.369	6785.209	6586.492	6114.176	5647.621
50.0	5997.058	6070.017	6276.415	6684.411	7109.686	7262.325	7220.085	7012.727	6518.332	6024.897
52.5	6369.534	6461.693	6676.731	7092.406	7535.922	7711.600	7663.600	7454.323	6932.088	6414.653
55.0	6776.570	6871.609	7086.646	7494.642	7984.237	8173.355	8121.516	7900.718	7412.083	6918.648
57.5	7307.444	7427.443	7618.481	7989.037	8477.672	8728.229	8672.550	8468.072	7941.997	7400.563
60.0	7954.477	8012.077	8171.435	8546.791	9084.386	9377.183	9316.703	9040.226	8508.392	8073.516
62.5	8610.151	8670.630	8827.108	9198.624	9813.018	10183.574	10216.214	9793.818	9153.505	8654.310
65.0	9187.105	9251.424	9462.622	9904.217	10750.928	11247.243	11236.683	10659.729	99991.576	9626.780
67.5	9303.263	9385.822	9766.939	10581.010	112133.314	12777.467	12839.867	12203.393	11250.123	10607.890
70.0	7844.078	8085.036	9083.426	10402.452	13207.543	15570.078	15475.999	13872.816	11910.596	10107.735
72.5	2570.853	2645.733	4173.077	7731.760	11892.356	15660.317	15862.875	13124.024	9217.824	6481.853
75.0	581.754	569.274	803.512	2020.779	6590.332	11995.075	11885.636	9037.346	4839.310	2687.012
77.5	273.597	265.917	314.877	540.474	1512.944	4573.392	5560.262	3818.840	1712.622	959.990
80.0	135.359	141.119	154.558	201.598	437.755	1094.389	1284.467	1142.388	811.192	514.555
82.5	70.079	71.999	80.639	104.639	166.078	277.437	297.597	450.235	444.475	321.597
85.0	32.640	34.560	39.360	53.759	81.599	126.719	132.479	151.678	208.318	228.478
87.5	19.200	20.160	24.000	28.800	37.440	48.000	52.799	77.759	117.119	176.638
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>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177	2179.177
2.5	2177.257	2178.217	2183.977	2168.617	2176.297	2177.257	2177.257	2172.457	2168.617	2166.697
5.0	2194.537	2191.657	2196.457	2180.137	2183.977	2183.017	2182.057	2174.377	2170.537	2167.657
7.5	2231.017	2225.257	2228.137	2213.737	2215.657	2212.777	2210.857	2205.097	2194.537	2191.657
10.0	2289.576	2288.616	2284.776	2271.336	2273.256	2271.336	2267.496	2257.897	2239.657	2231.977
12.5	2379.815	2368.295	2363.495	2352.936	2359.655	2360.615	2354.856	2336.616	2312.616	2288.616
15.0	2475.814	2460.454	2465.254	2453.735	2471.014	2477.734	2467.174	2443.175	2407.655	2370.215
17.5	2587.173	2568.933	2574.693	2569.893	2603.493	2618.853	2614.053	2572.773	2469.094	2323.176
20.0	2720.612	2700.452	2707.172	2724.452	2760.931	2787.811	2779.171	2562.213	2149.418	1843.181
22.5	2871.330	2847.330	2855.010	2888.610	2941.409	2988.449	2807.011	2192.617	1669.423	1366.066
25.0	3028.769	2999.009	3009.569	3060.448	3136.287	3162.207	2511.334	1722.222	1217.267	1028.149
27.5	3197.727	3163.167	3178.527	3245.726	3362.845	3128.607	2059.179	1267.187	1040.629	1004.150

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CANDELA TABULATION - (Cont.)

30.0	3398.365	3358.045	3373.405	3450.204	3580.763	2854.050	1574.384	1092.469	1042.549	1005.110
32.5	3616.282	3571.163	3584.603	3671.962	3713.241	2388.455	1217.267	1095.349	1052.149	1007.990
35.0	3831.320	3781.401	3793.881	3902.359	3658.522	1883.500	1151.028	1109.748	1060.789	1000.310
37.5	4065.558	4011.798	4022.358	4139.477	3441.564	1451.505	1166.388	1125.108	1038.709	909.111
40.0	4363.155	4287.315	4304.595	4396.754	3049.888	1266.227	1188.468	1110.708	928.310	740.152
42.5	4651.152	4597.392	4582.032	4644.432	2528.614	1240.307	1204.787	1018.549	739.192	552.954
45.0	4955.469	4890.189	4887.309	4744.271	1974.699	1254.707	1176.948	836.151	525.115	387.836
47.5	5323.145	5250.185	5240.586	4734.671	1620.463	1271.987	1055.989	614.394	359.036	301.437
50.0	5680.261	5608.262	5590.022	4566.673	1378.546	1263.347	845.751	403.196	282.237	250.557
52.5	6086.337	6019.137	5988.418	4290.195	1293.107	1175.988	588.474	287.997	235.198	208.318
55.0	6580.732	6506.812	6468.413	3875.480	1305.586	991.670	369.596	234.238	194.878	170.878
57.5	7033.847	6960.888	6917.688	3324.445	1307.506	702.713	254.397	192.958	156.478	133.439
60.0	7676.080	7595.441	7577.201	2991.329	1290.227	433.915	207.358	154.558	119.999	117.119
62.5	8267.434	8220.395	8105.196	2708.132	1237.427	254.397	167.998	118.079	127.679	138.239
65.0	9296.543	9201.504	8741.669	2431.655	1127.988	181.438	129.599	125.759	140.159	175.678
67.5	10204.694	10098.135	8788.709	2255.977	996.470	155.518	124.799	178.558	174.718	252.477
70.0	8831.908	8605.351	7234.485	1829.741	860.151	193.918	234.238	247.677	264.957	327.357
72.5	5165.706	4911.309	4111.637	949.430	509.755	210.238	286.077	277.437	283.197	281.277
75.0	1828.781	1674.223	1328.626	350.396	155.518	127.679	212.158	263.997	168.958	96.959
77.5	652.793	586.554	437.755	141.119	67.199	41.280	159.358	110.399	38.400	20.160
80.0	394.556	345.596	244.797	64.319	27.840	21.120	42.240	19.200	7.680	2.880
82.5	234.238	176.638	119.999	24.000	10.560	8.640	11.520	3.840	0.000	0.000
85.0	140.159	93.119	46.080	4.800	0.960	1.920	0.960	0.000	0.000	0.000
87.5	81.599	31.680	13.440	0.960	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

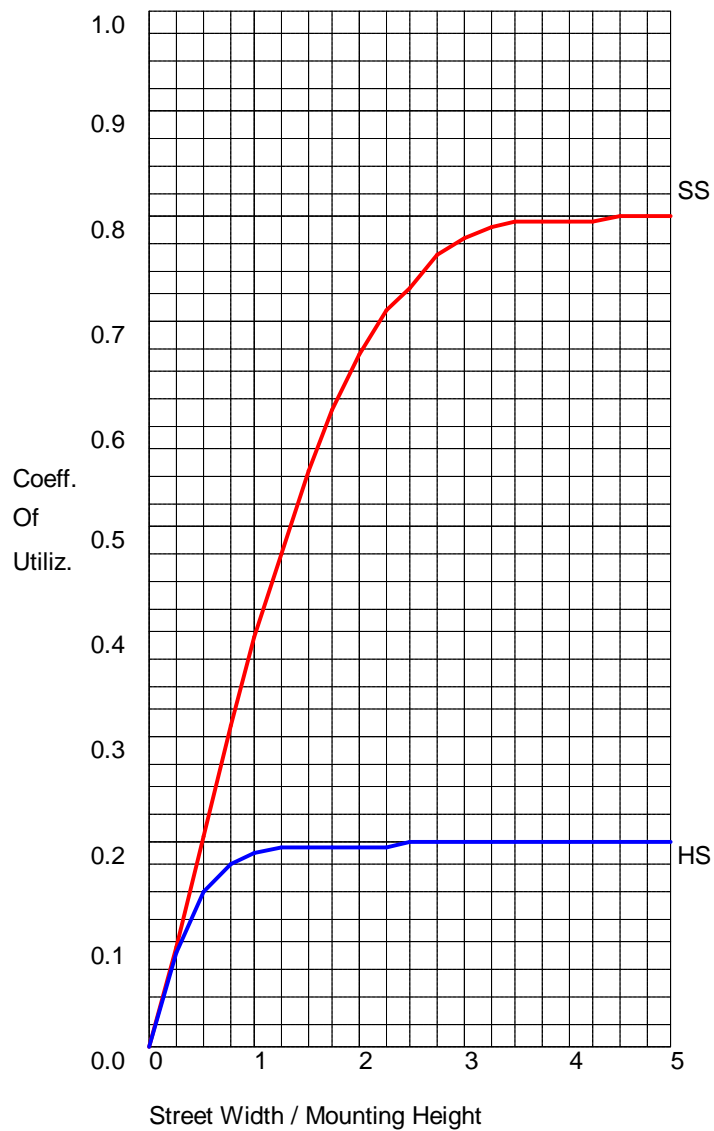
	175.0	180.0
0.0	2179.177	2179.177
2.5	2163.818	2159.018
5.0	2164.778	2159.978
7.5	2189.737	2183.977
10.0	2226.217	2219.497
12.5	2278.056	2271.336
15.0	2349.096	2341.416
17.5	2214.697	2199.337
20.0	1726.062	1710.702
22.5	1233.587	1241.267
25.0	995.510	987.830
27.5	985.910	979.190
30.0	985.910	978.230
32.5	985.910	978.230
35.0	954.230	943.670
37.5	828.471	813.112
40.0	650.873	637.433
42.5	475.195	464.635
45.0	346.556	342.716
47.5	285.117	283.197
50.0	237.118	237.118
52.5	196.798	192.958
55.0	158.398	155.518
57.5	119.039	117.119
60.0	123.839	122.879
62.5	124.799	117.119
65.0	149.758	131.519

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CANDELA TABULATION - (Cont.)

67.5	210.238	190.078
70.0	255.357	230.398
72.5	207.358	188.158
75.0	54.719	45.120
77.5	0.960	0.000
80.0	0.000	0.000
82.5	0.000	0.000
85.0	0.000	0.000
87.5	0.000	0.000
90.0	0.000	0.000

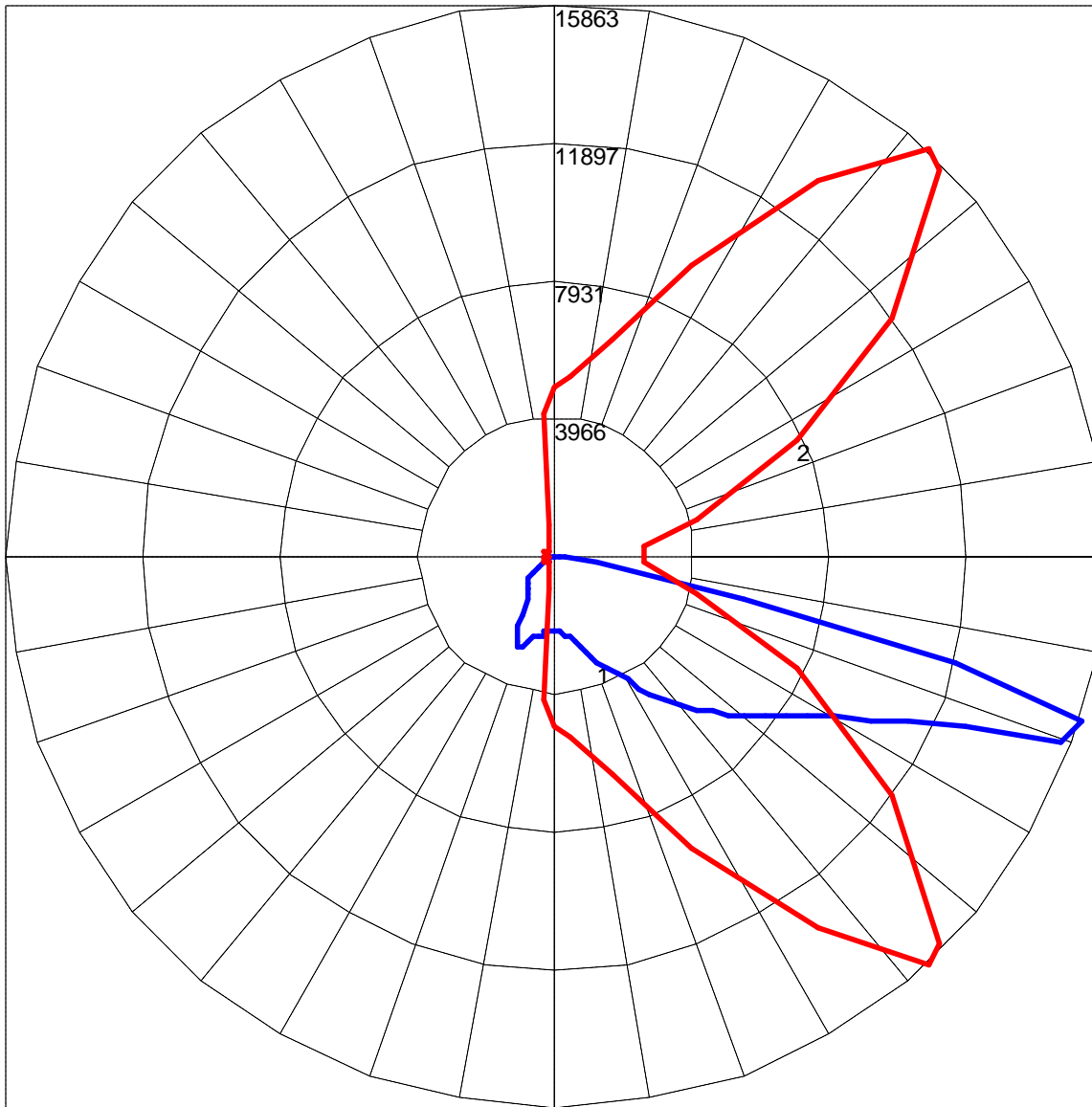
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

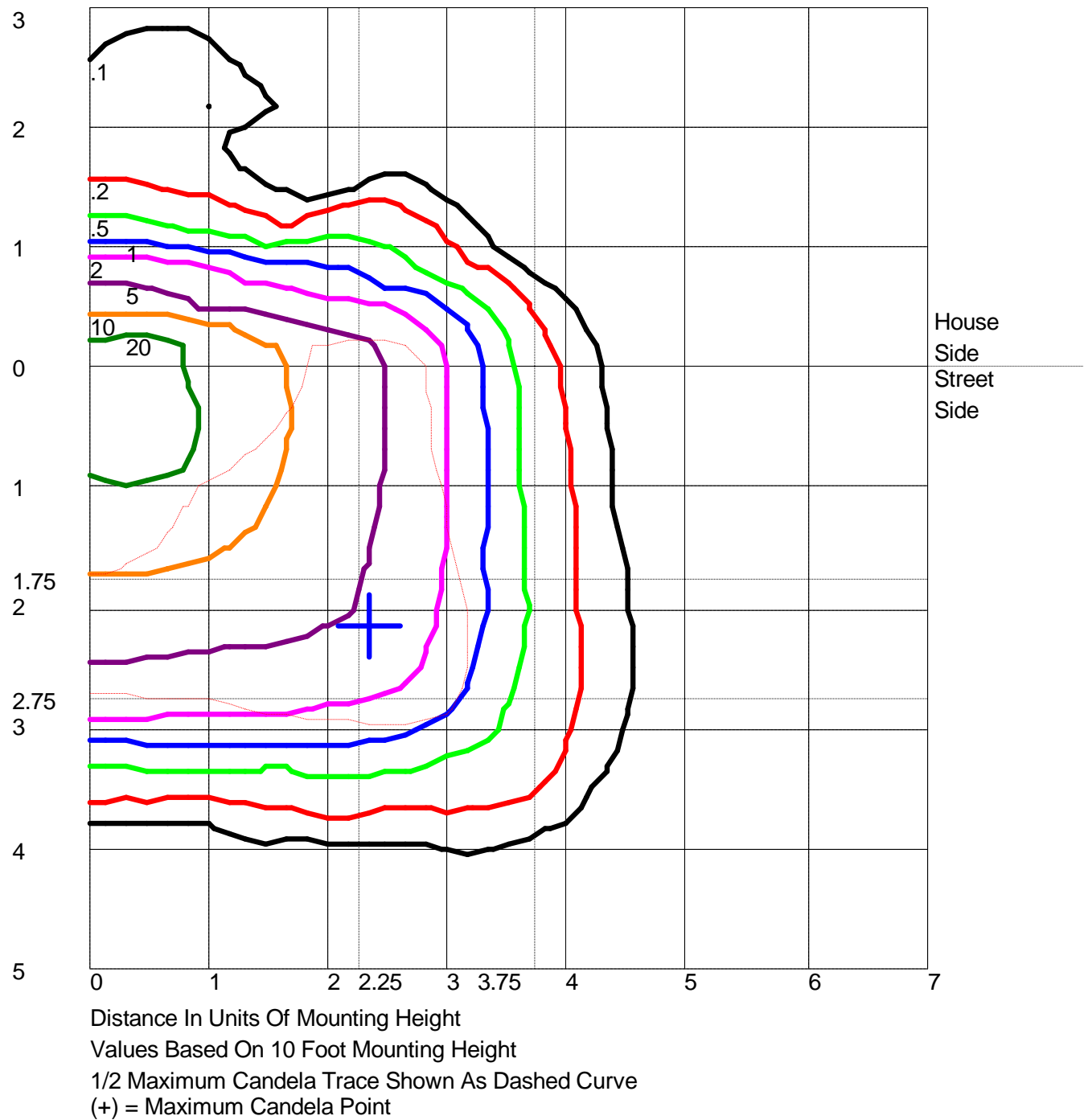
	Lumens	Percent Of Luminaire
Downward Street Side	16023.2	80.2
Downward House Side	3965.2	19.8
Downward Total	19988.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	19988.4	100.0

POLAR GRAPH

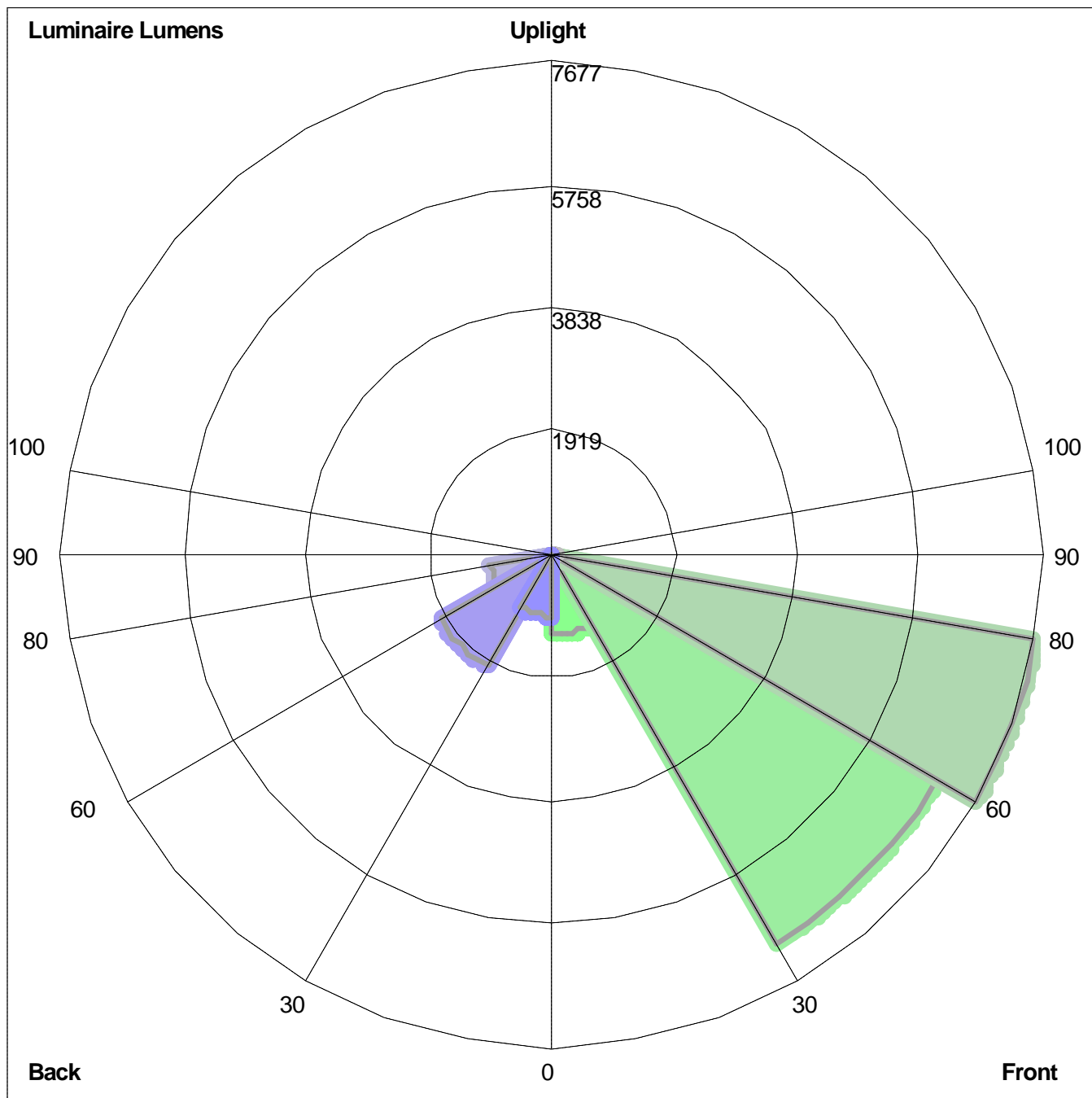


Maximum Candela = 15862.875 Located At Horizontal Angle = 47.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1274.6, Medium=6977.4, High=7676.7, Very High=94.5
Back: Low=963.6, Medium=2022.7, High=971.3, Very High=7.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4