



IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-3-LED-35-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7769
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]05/02/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XMR-3-LED-35-30
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Outdoor
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30344
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	313.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27112.13
Maximum Candela Angle	57.5H 70V
Maximum Candela (<90 Degrees Vertical)	27112.13
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2475.138 (8.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1370.5	N.A.	4.5
FM - Front-Medium (30-60)	11391.1	N.A.	37.5
FH - Front-High (60-80)	10031.4	N.A.	33.1
FVH - Front-Very High (80-90)	310.4	N.A.	1.0
BL - Back-Low (0-30)	1464.0	N.A.	4.8
BM - Back-Medium (30-60)	4021.4	N.A.	13.3
BH - Back-High (60-80)	1637.2	N.A.	5.4
BVH - Back-Very High (80-90)	117.6	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	30343.7	N.A.	100.0
BUG Rating	B3-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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287
2.5	2853.546	2849.246	2843.226	2854.406	2867.307	2879.347	2890.527	2881.927	2899.127	2906.008
5.0	2694.443	2693.583	2691.003	2712.503	2741.744	2776.145	2816.565	2816.565	2860.426	2898.267
7.5	2548.239	2547.379	2550.819	2583.500	2629.941	2684.122	2746.904	2753.784	2816.565	2884.507
10.0	2427.836	2427.836	2435.577	2476.858	2533.619	2602.420	2684.122	2695.303	2765.824	2858.706
12.5	2359.895	2353.015	2370.215	2414.936	2471.697	2546.519	2636.821	2653.162	2739.164	2845.806
15.0	2348.715	2346.995	2366.775	2414.936	2470.837	2550.819	2641.121	2655.742	2746.044	2864.727
17.5	2401.176	2405.476	2430.416	2488.898	2555.979	2647.142	2732.283	2759.804	2838.926	2965.349
20.0	2554.259	2563.720	2591.240	2663.482	2763.244	2861.286	2961.909	3004.050	3070.271	3182.074
22.5	2833.766	2851.826	2881.067	2966.209	3090.912	3215.615	3329.137	3381.599	3443.520	3450.400
25.0	3329.137	3299.897	3342.898	3417.719	3553.603	3709.266	3809.889	3858.910	3852.890	3763.447
27.5	3885.570	3854.610	3925.991	4043.814	4153.036	4327.621	4380.942	4413.623	4321.600	4109.175
30.0	4512.525	4477.264	4573.586	4718.930	4871.153	5039.717	5095.618	5042.297	4847.073	4490.164
32.5	5185.060	5143.780	5261.602	5438.766	5663.232	5835.236	5827.495	5743.213	5421.566	4897.814
35.0	5842.976	5812.875	5969.399	6239.445	6510.351	6688.375	6623.874	6509.491	6056.261	5326.964
37.5	6479.391	6456.170	6715.036	7040.124	7397.892	7612.897	7492.494	7335.970	6728.796	5769.014
40.0	7143.326	7125.266	7468.414	7908.744	8353.374	8602.780	8413.575	8206.311	7450.353	6202.464
42.5	7947.445	7941.425	8379.175	8928.727	9448.180	9719.086	9366.478	9097.291	8125.469	6626.454
45.0	9020.750	9081.811	9577.183	10210.157	10807.011	10842.272	10322.820	9990.852	8773.924	7005.723
47.5	10185.217	10317.660	10837.972	11556.088	12248.405	12013.619	11232.721	10879.253	9391.418	7408.212
50.0	11342.804	11470.947	11973.198	12871.919	13727.639	13404.271	12070.380	11693.692	9987.412	7859.723
52.5	12602.733	12602.733	13139.385	14181.730	15160.432	14671.081	13045.643	12491.790	10641.887	8435.936
55.0	14665.061	14635.820	15051.210	15724.605	16553.665	15736.646	13791.280	13170.346	11300.663	9177.273
57.5	16493.463	16504.643	16918.313	17786.073	18281.445	16652.567	14448.336	13848.902	12206.264	10118.995
60.0	17043.876	17130.738	17829.074	18982.361	20072.006	18180.822	15254.174	14661.621	13092.944	11507.067
62.5	13985.645	14036.386	15849.308	18370.027	21264.854	20373.873	16939.814	16202.776	14510.257	13335.470
65.0	6815.658	6983.362	9232.315	14368.354	20287.011	22351.919	19967.084	19008.162	16623.326	14994.448
67.5	3784.088	3696.366	4342.241	7084.845	14511.117	22683.027	23903.395	23748.592	19628.236	16397.141
70.0	2074.368	2033.087	2464.817	3600.904	6668.595	17836.814	26861.004	27112.130	22281.398	15090.771
72.5	1188.548	1248.749	1583.297	2443.317	3765.167	9430.979	23469.945	24784.916	19924.943	8552.039
75.0	845.400	888.401	1134.366	1870.543	2863.867	4871.153	13928.024	15322.976	9671.785	2576.620
77.5	642.435	676.836	878.080	1548.896	2285.073	3219.915	5437.046	5173.020	3111.552	1361.412
80.0	443.770	473.871	660.495	1265.089	1937.625	2286.793	2475.138	2345.274	1817.222	789.498
82.5	276.926	297.567	468.711	1010.523	1512.775	1550.616	1271.110	1239.289	977.843	454.951
85.0	171.144	177.164	304.447	737.037	1026.864	829.059	552.133	581.374	474.731	258.866
87.5	128.143	132.443	198.665	528.052	566.753	175.444	150.503	164.264	178.884	133.303
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	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287	2904.287
2.5	2923.208	2937.828	2930.088	2924.068	2938.688	2936.968	2950.729	2949.869	2944.708	2939.548
5.0	2942.128	2963.629	2961.049	2969.649	2992.870	3004.910	3028.130	3041.031	3047.911	3050.491
7.5	2955.029	2986.849	2991.149	3014.370	3057.371	3096.932	3150.253	3186.374	3205.294	3212.175
10.0	2959.329	3003.190	3014.370	3053.071	3119.292	3189.814	3286.136	3341.178	3365.258	3361.818
12.5	2967.929	3022.970	3039.311	3093.492	3183.794	3293.017	3402.239	3451.260	3462.440	3446.960
15.0	2998.890	3059.091	3081.452	3142.513	3262.056	3397.079	3491.681	3516.622	3526.942	3520.922
17.5	3086.612	3141.653	3157.133	3224.215	3356.658	3490.821	3555.323	3572.523	3590.583	3587.143
20.0	3251.736	3285.276	3290.436	3311.937	3455.560	3581.123	3618.104	3630.144	3631.004	3630.144
22.5	3431.480	3435.780	3412.559	3390.199	3526.082	3643.905	3698.086	3674.005	3655.945	3641.325
25.0	3625.844	3576.823	3510.602	3452.120	3573.383	3685.186	3761.727	3708.406	3657.665	3631.004
27.5	3827.949	3720.446	3581.123	3473.621	3583.703	3709.266	3790.968	3723.027	3647.345	3612.944

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CANDELA TABULATION - (Cont.)

30.0	4036.074	3840.849	3624.124	3452.120	3571.663	3712.706	3788.388	3727.327	3655.945	3640.465
32.5	4257.959	3956.092	3645.625	3387.619	3518.342	3688.626	3765.167	3741.087	3724.747	3782.368
35.0	4497.905	4065.314	3652.505	3285.276	3422.880	3634.444	3729.907	3779.788	3859.770	4042.094
37.5	4729.250	4170.237	3649.065	3145.093	3301.617	3548.442	3692.066	3785.808	3979.312	4313.860
40.0	4955.435	4270.859	3636.164	3000.610	3160.573	3440.940	3591.443	3696.366	4199.478	4652.708
42.5	5162.700	4363.741	3618.104	2847.526	2985.129	3285.276	3415.999	3662.825	4662.168	4728.390
45.0	5369.105	4470.384	3613.804	2696.163	2800.225	3069.411	3253.456	3755.707	5226.341	4374.922
47.5	5613.350	4622.607	3650.785	2580.060	2616.181	2887.947	3140.793	3899.331	5591.850	4094.555
50.0	5940.158	4849.653	3761.727	2504.378	2458.797	2747.764	3047.911	3990.493	5657.211	3918.251
52.5	6367.588	5197.101	3949.212	2470.837	2333.234	2632.521	2952.449	3901.911	5410.386	3782.368
55.0	6860.379	5519.608	4187.437	2470.837	2217.992	2524.159	2838.066	3587.143	4939.955	3645.625
57.5	7163.106	5729.453	4407.602	2487.178	2115.649	2401.176	2693.583	3106.392	4354.281	3482.221
60.0	7710.079	6487.991	4638.088	2482.018	2013.307	2249.812	2507.818	2664.342	3655.085	3274.956
62.5	9439.579	7584.516	4368.902	2285.933	1849.043	2046.848	2275.613	2291.953	2925.788	3080.592
65.0	11556.949	8135.789	3569.943	1923.865	1618.558	1805.182	2002.127	1953.105	2221.432	2832.046
67.5	12294.846	7117.525	2596.400	1419.033	1314.971	1511.055	1674.459	1655.538	1664.139	2486.318
70.0	8818.645	4264.839	1514.495	991.603	1035.464	1151.567	1283.150	1387.212	1357.112	2151.770
72.5	3188.094	1520.515	763.698	739.617	816.159	825.619	928.822	1136.086	1148.987	1786.262
75.0	1289.170	696.616	478.171	557.293	635.555	658.775	748.217	951.182	914.201	1341.631
77.5	742.197	423.990	360.348	441.190	530.632	562.453	636.415	662.215	564.173	816.159
80.0	435.170	275.206	261.446	350.028	436.890	483.331	473.871	482.471	417.110	557.293
82.5	280.367	182.324	195.225	284.667	342.288	297.567	325.948	346.588	293.267	358.628
85.0	160.824	106.642	142.763	247.686	201.245	201.245	240.806	203.825	159.964	201.245
87.5	80.842	53.321	115.243	172.864	119.543	109.223	105.782	86.862	65.362	80.842
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

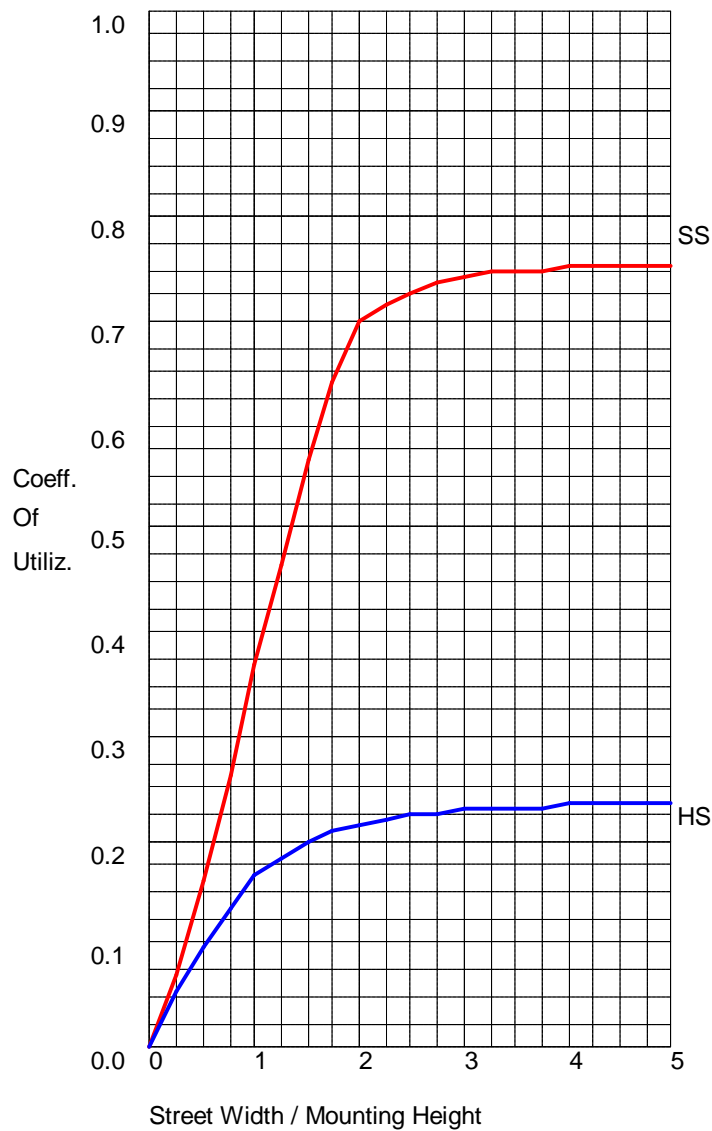
	175.0	180.0
0.0	2904.287	2904.287
2.5	2934.388	2913.748
5.0	3048.771	3025.550
7.5	3213.035	3190.674
10.0	3353.218	3329.997
12.5	3425.460	3409.119
15.0	3495.121	3476.201
17.5	3554.463	3527.802
20.0	3590.583	3557.903
22.5	3594.024	3553.603
25.0	3581.123	3537.262
27.5	3573.383	3531.242
30.0	3624.124	3581.123
32.5	3814.189	3785.808
35.0	4126.376	4091.975
37.5	4394.702	4318.160
40.0	4209.798	4047.254
42.5	3640.465	3488.241
45.0	3383.319	3263.776
47.5	3248.295	3139.073
50.0	3133.053	3010.070
52.5	2992.870	2844.946
55.0	2837.206	2657.462
57.5	2641.121	2414.076
60.0	2405.476	2144.890
62.5	2267.013	2015.027
65.0	2173.270	1971.166

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CANDELA TABULATION - (Cont.)

67.5	2149.190	2045.128
70.0	2237.772	2220.572
72.5	2252.392	2306.574
75.0	1819.802	2071.788
77.5	1471.494	1744.121
80.0	890.121	1011.383
82.5	422.270	410.230
85.0	197.805	197.805
87.5	88.582	129.003
90.0	0.000	0.000

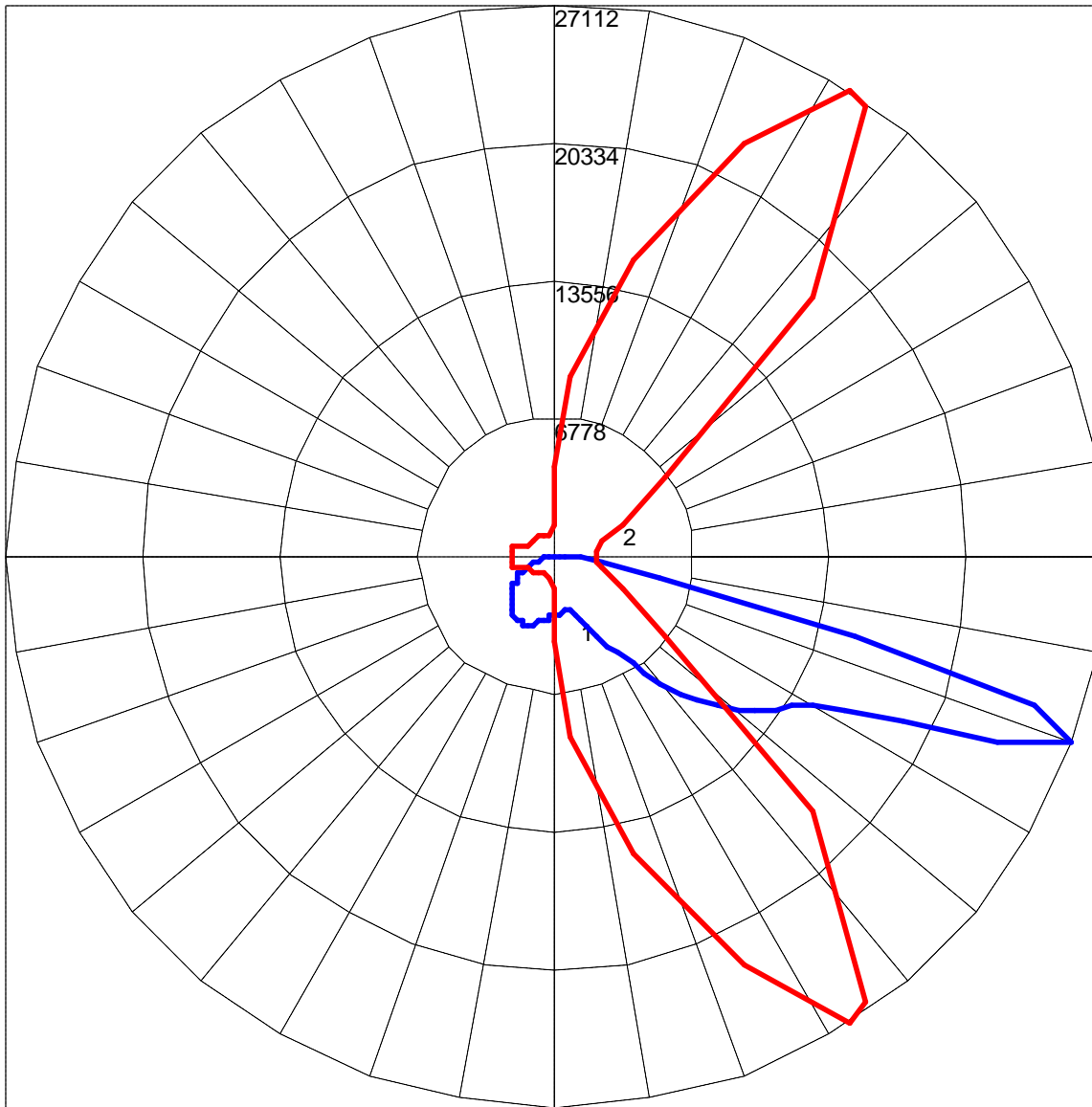
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

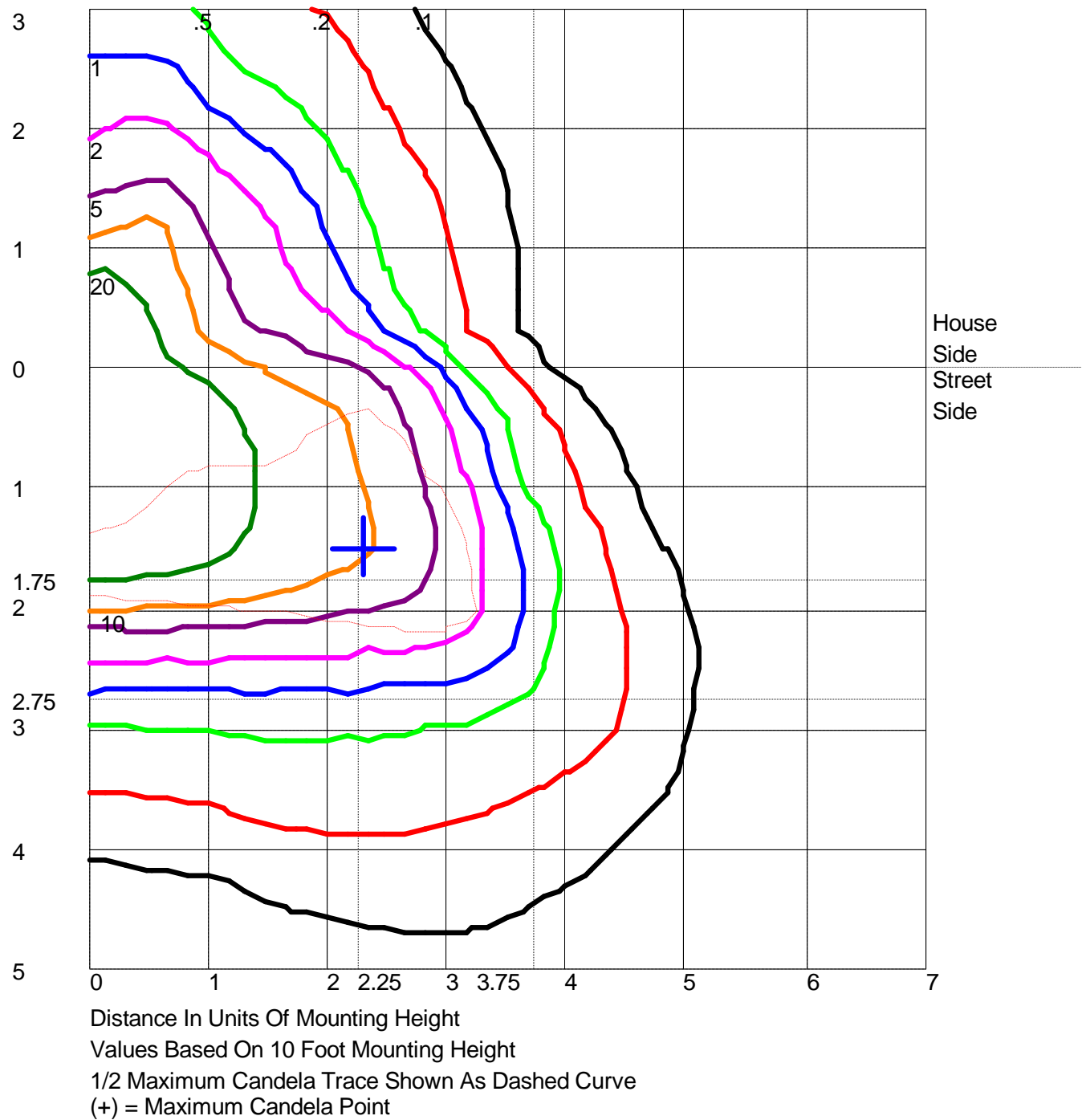
	Lumens	Percent Of Luminaire
Downward Street Side	23103.5	76.1
Downward House Side	7240.1	23.9
Downward Total	30343.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30343.6	100.0

POLAR GRAPH

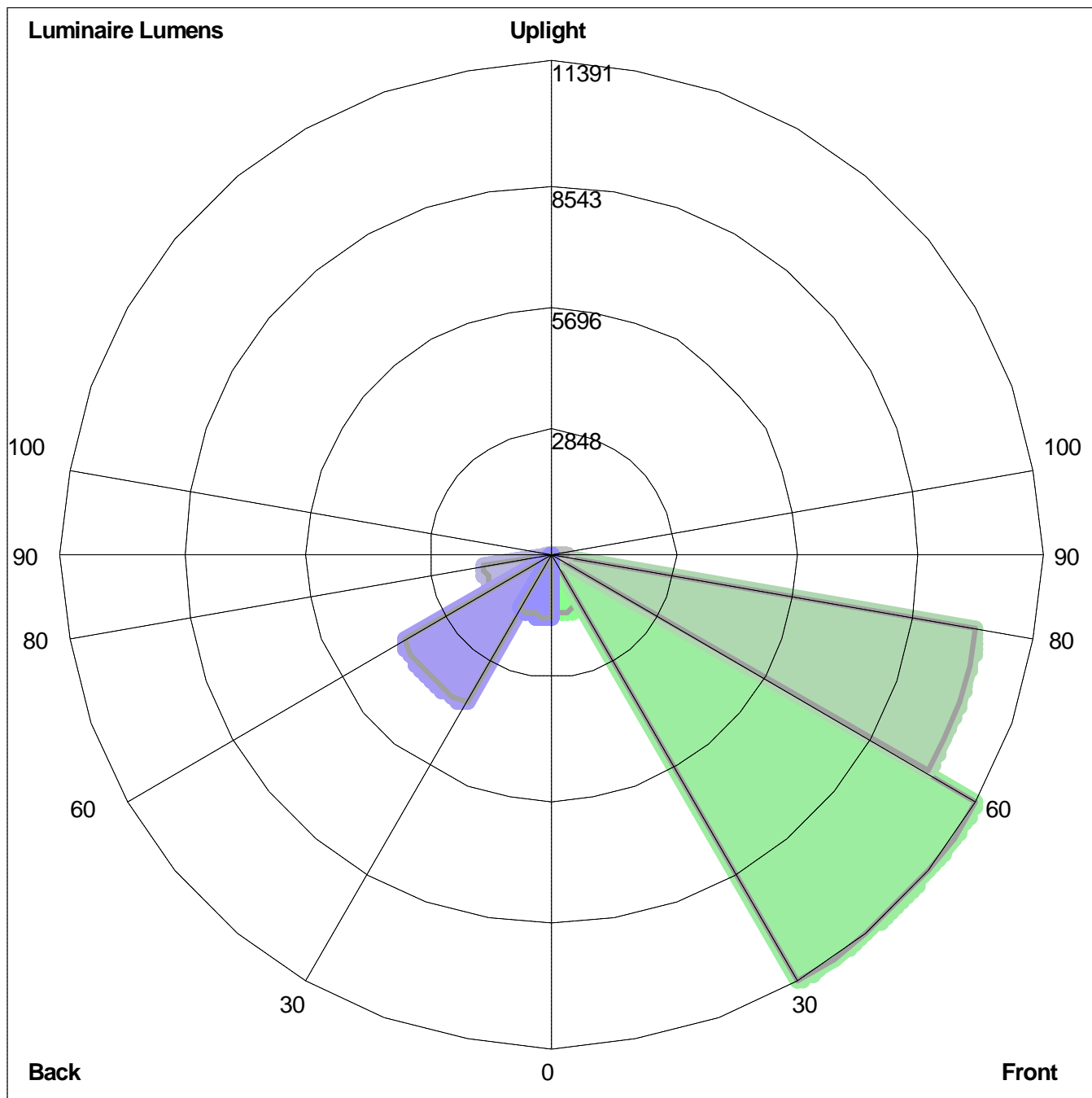


Maximum Candela = 27112.13 Located At Horizontal Angle = 57.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1370.5, Medium=11391.1, High=10031.4, Very High=310.4
Back: Low= 1464.0, Medium=4021.4, High=1637.2, Very High=117.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4