



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-FT-LED-35-50-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-7787  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]11/21/16  
[TEST DATE]05/05/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XMR-FT-LED-35-50-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26026
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	315
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22150.549
Maximum Candela Angle	47.5H 70V
Maximum Candela (<90 Degrees Vertical)	22150.549
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3556.427 (13.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2199.9	N.A.	8.5
FM - Front-Medium (30-60)	9564.2	N.A.	36.7
FH - Front-High (60-80)	10794.3	N.A.	41.5
FVH - Front-Very High (80-90)	283.3	N.A.	1.1
BL - Back-Low (0-30)	1055.1	N.A.	4.1
BM - Back-Medium (30-60)	1654.4	N.A.	6.4
BH - Back-High (60-80)	467.8	N.A.	1.8
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	26026.6	N.A.	100.0
BUG Rating	B3-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>47.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152
<b>2.5</b>	4692.262	4687.534	4672.169	4673.351	4673.351	4665.077	4624.892	4637.893	4618.982	4581.160
<b>5.0</b>	4668.623	4661.532	4663.896	4689.898	4707.627	4737.175	4715.900	4754.904	4760.814	4719.446
<b>7.5</b>	4615.436	4607.163	4614.255	4649.712	4688.716	4751.358	4733.629	4804.545	4857.732	4864.824
<b>10.0</b>	4613.073	4608.345	4620.164	4666.259	4709.991	4790.362	4783.270	4867.188	4955.832	5012.565
<b>12.5</b>	4656.804	4652.076	4663.896	4714.719	4769.087	4858.914	4857.732	4952.286	5066.934	5169.762
<b>15.0</b>	4711.173	4712.355	4732.448	4787.998	4853.004	4959.378	4961.742	5062.206	5191.036	5326.958
<b>17.5</b>	4772.633	4777.361	4804.545	4868.369	4944.013	5066.934	5079.935	5186.309	5321.049	5479.427
<b>20.0</b>	4860.096	4873.097	4900.282	4965.288	5043.295	5176.853	5195.764	5304.502	5440.424	5615.349
<b>22.5</b>	4990.108	4991.290	5016.111	5079.935	5159.124	5280.863	5305.684	5407.330	5544.433	5719.359
<b>25.0</b>	5141.395	5141.395	5159.124	5213.493	5279.681	5382.509	5403.784	5494.792	5629.532	5797.366
<b>27.5</b>	5328.140	5326.958	5337.596	5371.872	5408.511	5480.609	5497.156	5569.254	5694.538	5852.917
<b>30.0</b>	5540.888	5539.706	5542.070	5552.707	5549.161	5586.983	5596.438	5635.442	5740.634	5884.829
<b>32.5</b>	5764.272	5764.272	5763.090	5757.181	5720.541	5716.995	5709.904	5712.267	5777.274	5894.285
<b>35.0</b>	6007.750	6021.933	5995.931	5973.474	5926.197	5876.556	5860.009	5810.368	5816.277	5893.103
<b>37.5</b>	6297.323	6311.506	6274.866	6229.953	6162.583	6090.485	6065.664	5962.837	5882.465	5900.194
<b>40.0</b>	6656.629	6670.813	6636.537	6575.076	6472.248	6370.602	6339.872	6193.313	6000.658	5938.016
<b>42.5</b>	7103.399	7122.310	7079.760	7002.935	6889.470	6757.094	6744.092	6549.074	6199.223	6027.843
<b>45.0</b>	7715.639	7744.005	7687.272	7630.540	7462.706	7281.870	7299.599	7043.121	6530.163	6222.861
<b>47.5</b>	8623.361	8610.360	8574.902	8499.258	8313.695	8015.849	8034.760	7771.189	7027.755	6538.436
<b>50.0</b>	9607.909	9599.635	9592.543	9594.907	9391.615	9042.946	8999.215	8710.824	7728.640	6988.752
<b>52.5</b>	10646.825	10659.826	10750.835	10903.304	10698.830	10300.519	10257.970	99925.848	8651.727	7655.360
<b>55.0</b>	11562.821	11624.281	11878.396	12325.165	12245.976	11851.212	11831.119	11442.264	9875.025	8462.618
<b>57.5</b>	12292.071	12443.358	12847.579	13673.748	13947.955	13790.759	13690.295	13301.440	11303.978	9500.353
<b>60.0</b>	12750.660	12938.587	13542.553	14845.040	15719.668	15764.582	15716.122	15341.451	12927.950	10597.184
<b>62.5</b>	12965.772	13140.697	14081.513	15789.402	17134.438	17942.879	18227.724	17682.854	14680.752	11538.000
<b>65.0</b>	12414.992	12578.098	13885.313	16348.455	18620.124	19995.891	20445.024	20000.619	15954.872	11974.132
<b>67.5</b>	10644.461	110681.101	12466.997	15982.057	19757.141	21531.218	21831.428	21015.896	16185.349	11293.341
<b>70.0</b>	7509.983	7829.104	9650.458	14205.616	19267.822	22117.455	22150.549	20473.391	14703.209	8974.394
<b>72.5</b>	3145.116	3398.049	4866.006	9295.879	16447.737	20235.823	20458.025	17202.990	10663.372	5162.670
<b>75.0</b>	1452.592	1534.145	2205.481	3937.009	9795.835	15356.816	15385.182	12608.829	5454.607	2278.761
<b>77.5</b>	960.909	1004.640	1597.969	2473.779	4071.749	7780.645	8568.992	6510.070	2404.046	1278.848
<b>80.0</b>	657.153	696.157	1213.842	1900.543	2404.046	3556.427	3522.151	2656.979	1298.941	826.169
<b>82.5</b>	494.047	530.687	999.913	1458.502	1348.582	1030.643	856.899	659.517	640.606	504.684
<b>85.0</b>	308.484	310.848	497.593	518.867	457.407	346.305	261.207	183.199	223.385	252.933
<b>87.5</b>	83.917	94.554	148.923	200.928	112.283	83.917	80.371	82.735	93.372	113.465
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152	4490.152
<b>2.5</b>	4549.248	4546.885	4517.336	4451.148	4434.601	4400.325	4355.412	4310.499	4277.404	4253.766
<b>5.0</b>	4644.985	4611.891	4546.885	4393.234	4272.677	4124.936	3951.192	3792.813	3661.619	3567.065
<b>7.5</b>	4782.089	4718.264	4611.891	4341.229	4049.292	3715.988	3360.227	3063.562	2840.178	2694.800
<b>10.0</b>	4954.650	4861.278	4706.445	4280.950	3778.630	3225.487	2745.623	2412.319	2197.208	2079.015
<b>12.5</b>	5149.669	5030.294	4818.728	4202.943	3442.962	2733.804	2278.761	2024.646	1872.177	1777.623
<b>15.0</b>	5352.961	5212.311	4934.558	4103.661	3110.840	2380.407	2028.192	1811.899	1691.342	1618.062
<b>17.5</b>	5544.433	5388.419	5037.385	3973.648	2810.629	2183.025	1874.541	1692.524	1583.786	1519.962
<b>20.0</b>	5714.631	5544.433	5122.484	3815.270	2590.790	2071.923	1779.986	1619.244	1512.870	1441.955
<b>22.5</b>	5858.827	5670.900	5179.217	3647.436	2464.324	1993.916	1723.254	1562.511	1440.773	1366.311
<b>25.0</b>	5958.109	5769.000	5198.128	3499.695	2389.862	1936.001	1673.613	1496.323	1362.765	1254.028
<b>27.5</b>	6023.115	5825.733	5182.763	3385.047	2347.313	1896.998	1619.244	1408.860	1197.295	1040.098

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

30.0	6053.845	5837.552	5128.394	3310.586	2298.854	1852.084	1550.692	1243.390	963.273	797.803
32.5	6049.117	5812.731	5046.841	3263.309	2252.758	1797.715	1428.953	1018.824	759.981	663.063
35.0	6019.569	5760.727	4945.195	3227.851	2198.390	1731.527	1223.297	832.079	667.790	583.873
37.5	5986.475	5701.630	4858.914	3200.666	2139.293	1616.880	1021.187	738.706	586.237	494.047
40.0	5966.382	5647.261	4798.636	3177.028	2063.650	1411.224	884.084	650.061	505.866	439.678
42.5	5986.475	5630.714	4791.544	3158.117	1944.275	1166.565	763.527	553.143	445.588	449.133
45.0	6070.392	5679.173	4844.731	3147.479	1692.524	901.813	601.602	459.771	416.039	436.132
47.5	6250.046	5808.004	4988.926	3115.567	1306.033	657.153	456.225	372.308	377.036	358.125
50.0	6513.616	6012.478	5201.674	3008.012	897.085	481.045	361.671	314.393	319.121	258.843
52.5	6966.295	6380.058	5484.155	2833.086	622.877	405.402	309.666	270.662	267.116	230.476
55.0	7487.526	6819.736	5802.094	2547.059	517.685	367.580	275.390	235.204	235.204	265.934
57.5	8105.676	7274.779	6112.942	2162.932	479.864	332.122	241.114	216.293	251.751	225.749
60.0	8760.465	7739.277	6278.412	1756.348	447.951	278.935	202.110	222.203	167.834	150.105
62.5	9177.686	7944.933	6014.841	1345.036	392.401	223.385	210.384	151.287	118.193	109.919
65.0	8963.757	7478.071	4945.195	998.731	280.117	203.292	173.744	112.283	96.918	115.829
67.5	7955.570	6209.860	3122.659	745.798	200.928	189.109	125.285	100.464	100.464	86.281
70.0	5465.244	4037.473	1476.231	420.767	151.287	135.922	102.828	96.918	73.280	61.460
72.5	2544.695	1744.529	660.699	217.475	124.103	92.191	92.191	74.462	57.915	42.549
75.0	1106.286	745.798	323.849	133.558	91.009	72.098	65.006	54.369	20.093	16.547
77.5	677.246	458.589	209.202	91.009	56.733	50.823	41.368	23.639	10.637	10.637
80.0	449.133	294.301	139.468	61.460	34.276	31.912	16.547	8.274	7.092	7.092
82.5	265.934	172.562	86.281	30.730	17.729	13.001	9.455	8.274	7.092	2.364
85.0	144.195	85.099	37.822	11.819	8.274	8.274	7.092	3.546	1.182	0.000
87.5	62.642	26.002	11.819	5.910	7.092	7.092	5.910	3.546	1.182	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**

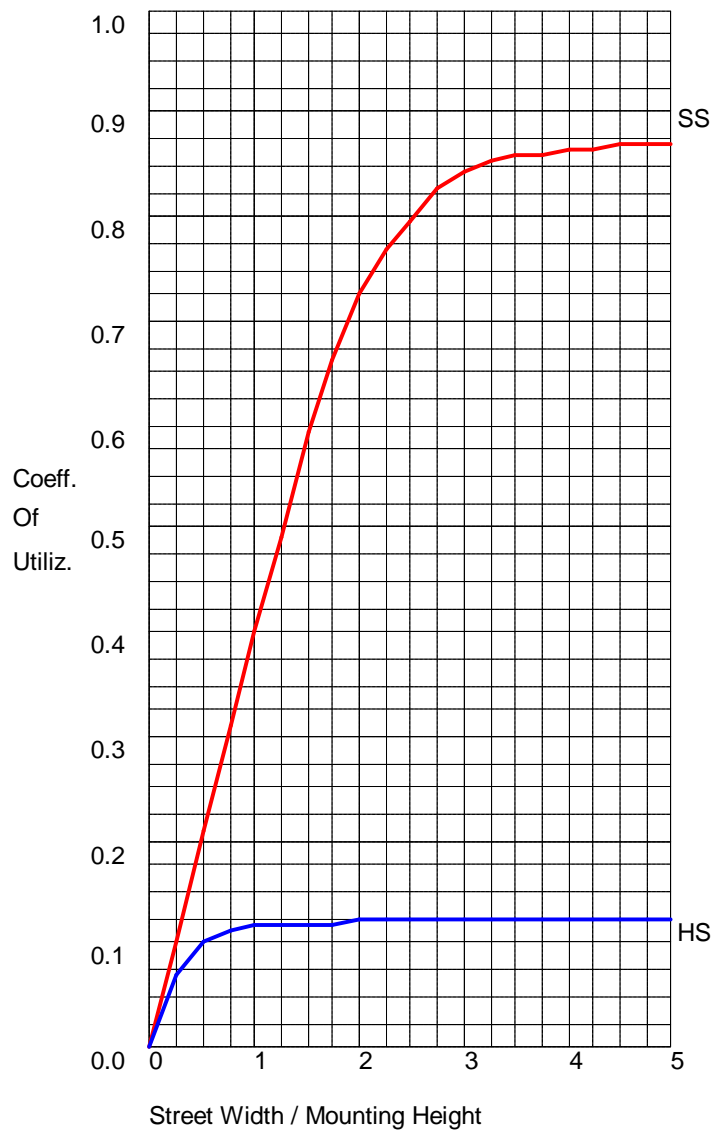
	<u>175.0</u>	<u>180.0</u>
0.0	4490.152	4490.152
2.5	4234.855	4233.673
5.0	3515.060	3530.425
7.5	2625.066	2633.340
10.0	2028.192	2027.010
12.5	1737.437	1711.435
15.0	1584.968	1567.239
17.5	1486.868	1475.049
20.0	1407.679	1397.041
22.5	1332.035	1322.580
25.0	1193.749	1180.748
27.5	958.545	943.180
30.0	731.615	720.977
32.5	632.333	628.787
35.0	546.052	537.778
37.5	457.407	453.861
40.0	423.131	419.585
42.5	491.683	460.953
45.0	356.943	320.303
47.5	270.662	267.116
50.0	243.478	242.296
52.5	241.114	241.114
55.0	286.027	284.845
57.5	197.382	185.563
60.0	127.648	122.921
62.5	94.554	92.191
65.0	105.192	102.828

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	73.280	70.916
<b>70.0</b>	52.005	49.641
<b>72.5</b>	30.730	28.366
<b>75.0</b>	17.729	15.365
<b>77.5</b>	4.728	0.000
<b>80.0</b>	1.182	0.000
<b>82.5</b>	0.000	0.000
<b>85.0</b>	0.000	0.000
<b>87.5</b>	0.000	0.000
<b>90.0</b>	0.000	0.000

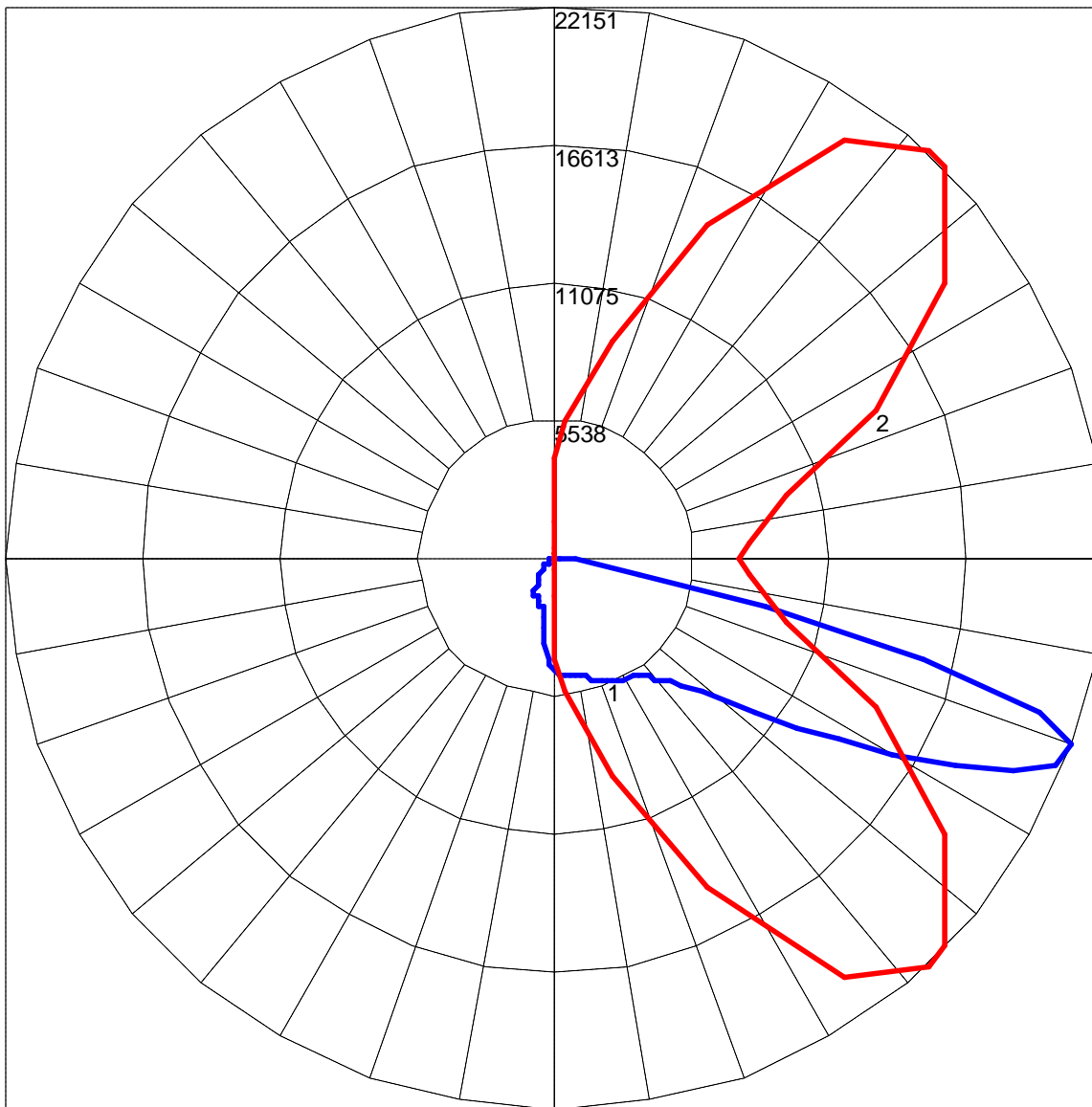
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

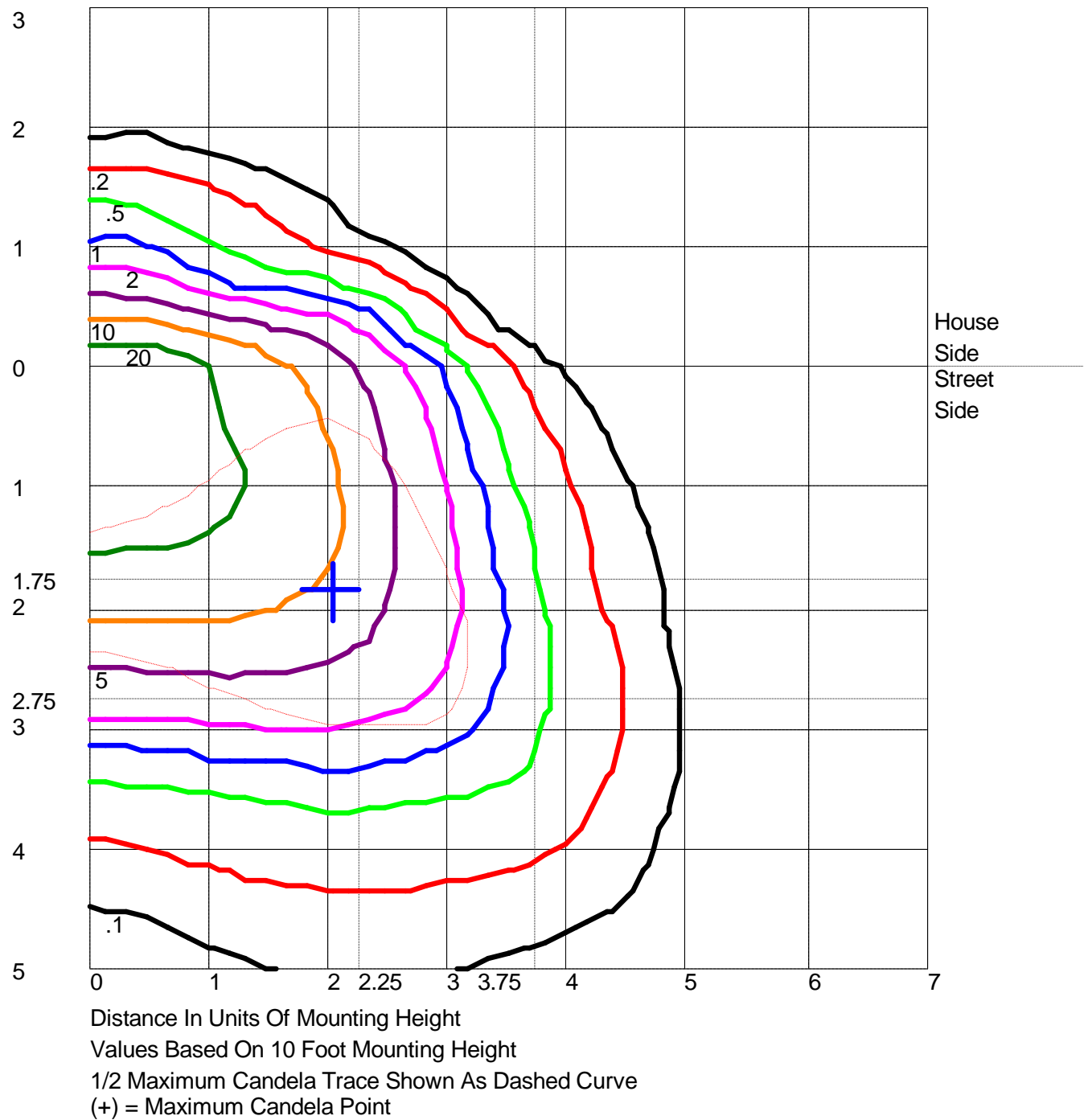
	Lumens	Percent Of Luminaire
Downward Street Side	22841.6	87.8
Downward House Side	3184.9	12.2
Downward Total	26026.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	26026.5	100.0

POLAR GRAPH



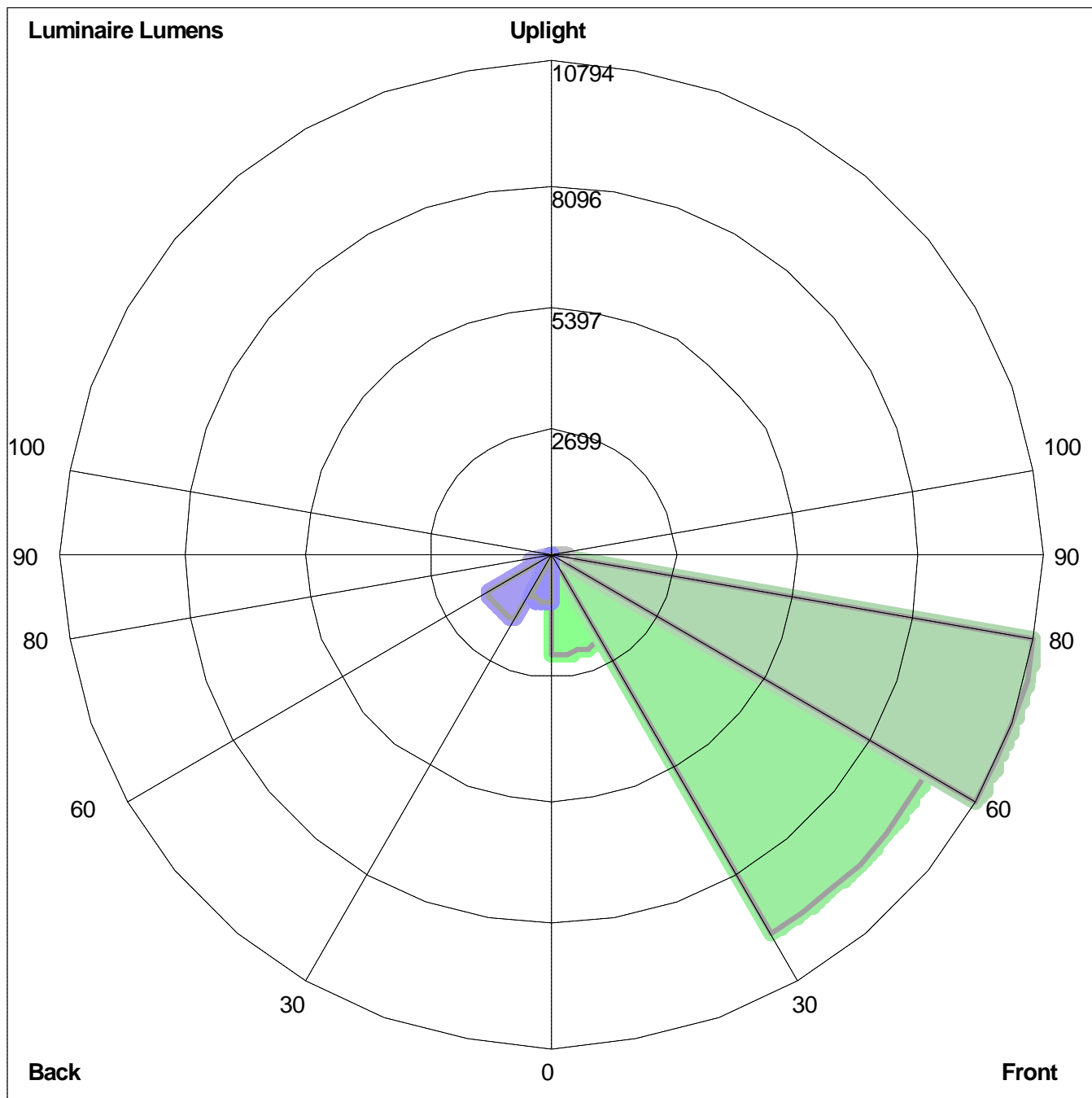
Maximum Candela = 22150.549 Located At Horizontal Angle = 47.5, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2199.9, Medium=9564.2, High=10794.3, Very High=283.3  
Back: Low=1055.1, Medium=1654.4, High=467.8, Very High=7.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4