



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-FT-LED-35-40-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-35-40-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24985
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	315
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21264.475
Maximum Candela Angle	47.5H 70V
Maximum Candela (<90 Degrees Vertical)	21264.475
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	3414.162 (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)	2111.9	N.A.	8.5
FM - Front-Medium (30-60)	9181.6	N.A.	36.7
FH - Front-High (60-80)	10362.5	N.A.	41.5
FVH - Front-Very High (80-90)	272.0	N.A.	1.1
BL - Back-Low (0-30)	1012.9	N.A.	4.1
BM - Back-Medium (30-60)	1588.2	N.A.	6.4
BH - Back-High (60-80)	449.0	N.A.	1.8
BVH - Back-Very High (80-90)	7.3	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	24985.4	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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535
2.5	4504.560	4500.022	4485.271	4486.406	4486.406	4478.464	4439.885	4452.367	4434.212	4397.903
5.0	4481.867	4475.060	4477.329	4502.291	4519.311	4547.677	4527.253	4564.697	4570.370	4530.657
7.5	4430.808	4422.866	4429.674	4463.713	4501.157	4561.293	4544.273	4612.352	4663.411	4670.219
10.0	4428.539	4424.000	4435.347	4479.598	4521.580	4598.736	4591.929	4672.489	4757.587	4812.051
12.5	4470.521	4465.982	4477.329	4526.119	4578.313	4664.546	4663.411	4754.183	4864.245	4962.959
15.0	4522.715	4523.850	4543.139	4596.467	4658.873	4760.991	4763.261	4859.706	4983.383	5113.868
17.5	4581.717	4586.255	4612.352	4673.623	4746.241	4864.245	4876.726	4978.844	5108.194	5260.237
20.0	4665.681	4678.162	4704.259	4766.665	4841.552	4969.767	4987.921	5092.309	5222.794	5390.722
22.5	4790.492	4791.627	4815.455	4876.726	4952.747	5069.616	5093.444	5191.024	5322.643	5490.571
25.0	4935.727	4935.727	4952.747	5004.941	5068.482	5167.196	5187.620	5274.988	5404.338	5565.458
27.5	5115.002	5113.868	5124.079	5156.984	5192.158	5261.372	5277.257	5346.471	5466.744	5618.787
30.0	5319.239	5318.105	5320.374	5330.586	5327.182	5363.491	5372.568	5410.011	5510.995	5649.422
32.5	5533.688	5533.688	5532.553	5526.880	5491.706	5488.302	5481.494	5483.763	5546.169	5658.500
35.0	5767.426	5781.042	5756.079	5734.521	5689.135	5641.480	5625.595	5577.939	5583.613	5657.365
37.5	6045.415	6059.031	6023.857	5980.740	5916.065	5846.851	5823.024	5724.309	5647.153	5664.173
40.0	6390.349	6403.965	6371.060	6312.058	6213.343	6115.763	6086.263	5945.566	5760.618	5700.482
42.5	6819.246	6837.401	6796.553	6722.801	6613.875	6486.794	6474.313	6287.096	5951.239	5786.715
45.0	7406.995	7434.227	7379.764	7325.300	7164.180	6990.579	7007.598	6761.379	6268.941	5973.932
47.5	8278.406	8265.925	8231.886	8159.268	7981.128	7695.196	7713.351	7460.324	6746.629	6276.884
50.0	9223.570	9215.627	9208.819	9211.089	9015.929	8681.207	8639.225	8362.370	7419.476	6709.185
52.5	10220.927	10233.408	10320.776	10467.146	10270.852	9888.475	9847.627	9528.791	8305.638	7349.128
55.0	11100.281	11159.283	11403.232	11832.130	11756.109	11377.135	11357.846	10984.547	9480.001	8124.094
57.5	11800.360	11945.595	12333.645	13126.766	13390.005	13239.096	13142.651	12769.351	10851.793	9120.317
60.0	12240.604	12421.013	13000.820	14251.204	15090.845	15133.962	15087.441	14727.757	12410.802	10173.272
62.5	12447.110	12615.039	13518.220	15157.789	16449.021	17225.122	17498.572	16975.499	14093.488	11076.453
65.0	11918.364	12074.945	13329.868	15694.479	17875.276	19196.009	19627.176	19200.547	15316.640	11495.139
67.5	10218.658	10253.832	11968.288	15342.737	18966.809	20669.919	20958.120	20175.212	15537.897	10841.581
70.0	7209.566	7515.922	9264.417	13637.358	18497.064	21232.705	21264.475	19654.407	14115.046	8615.397
72.5	3019.304	3262.119	4671.354	8924.022	15789.789	19426.343	19639.657	16514.831	10236.812	4956.151
75.0	1394.485	1472.776	2117.257	3779.519	9403.979	14742.507	14769.739	12104.446	5236.410	2187.605
77.5	922.470	964.452	1534.047	2374.822	3908.869	7469.401	8226.212	6249.652	2307.878	1227.691
80.0	630.865	668.309	1165.286	1824.517	2307.878	3414.162	3381.257	2550.693	1246.980	793.120
82.5	474.284	509.458	959.914	1400.158	1294.636	989.415	822.621	633.135	614.980	484.496
85.0	296.144	298.413	477.688	498.111	439.110	332.452	250.758	175.871	214.449	242.815
87.5	80.560	90.772	142.966	192.890	107.792	80.560	77.156	79.425	89.637	108.926
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	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535	4310.535
2.5	4367.268	4364.999	4336.632	4273.092	4257.207	4224.302	4181.185	4138.069	4106.298	4083.605
5.0	4459.174	4427.404	4364.999	4217.494	4101.760	3959.928	3793.135	3641.092	3515.146	3424.374
7.5	4590.794	4529.523	4427.404	4167.569	3887.311	3567.340	3225.810	2941.013	2726.564	2587.002
10.0	4756.453	4666.815	4518.176	4109.702	3627.476	3096.460	2635.792	2315.821	2109.314	1995.849
12.5	4943.670	4829.070	4625.968	4034.815	3305.235	2624.445	2187.605	1943.655	1797.286	1706.514
15.0	5138.830	5003.806	4737.164	3939.505	2986.399	2285.185	1947.059	1739.418	1623.684	1553.336
17.5	5322.643	5172.869	4835.878	3814.693	2698.198	2095.699	1799.555	1624.819	1520.431	1459.160
20.0	5486.033	5322.643	4917.573	3662.650	2487.153	1989.041	1708.783	1554.470	1452.352	1384.273
22.5	5624.460	5444.051	4972.036	3501.530	2365.745	1914.155	1654.320	1500.007	1383.138	1311.655
25.0	5719.771	5538.227	4990.191	3359.699	2294.262	1858.557	1606.664	1436.467	1308.251	1203.864
27.5	5782.176	5592.690	4975.440	3249.638	2253.415	1821.113	1554.470	1352.503	1149.400	998.492

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CANDELA TABULATION - (Cont.)

30.0	5811.677	5604.036	4923.246	3178.155	2206.894	1777.997	1488.661	1193.652	924.740	765.889
32.5	5807.139	5580.209	4844.955	3132.769	2162.643	1725.803	1371.792	978.068	729.580	636.539
35.0	5778.772	5530.284	4747.376	3098.729	2110.449	1662.262	1174.363	798.794	641.077	560.517
37.5	5747.002	5473.552	4664.546	3072.632	2053.716	1552.201	980.338	709.156	562.786	474.284
40.0	5727.713	5421.358	4606.679	3049.939	1981.099	1354.772	848.718	624.057	485.630	422.090
42.5	5747.002	5405.473	4599.871	3031.785	1866.499	1119.900	732.984	531.016	427.763	431.167
45.0	5827.562	5451.993	4650.930	3021.573	1624.819	865.738	577.537	441.379	399.397	418.686
47.5	6000.029	5575.670	4789.358	2990.937	1253.788	630.865	437.975	357.415	361.953	343.799
50.0	6253.056	5771.965	4993.595	2887.684	861.199	461.803	347.203	301.817	306.355	248.488
52.5	6687.627	6124.841	5264.776	2719.756	597.961	389.185	297.278	259.835	256.431	221.257
55.0	7188.008	6546.930	5569.997	2445.171	496.977	352.876	264.373	225.795	225.795	255.296
57.5	7781.430	6983.771	5868.410	2076.409	460.668	318.837	231.469	207.641	241.680	216.718
60.0	8410.026	7429.688	6027.261	1686.090	430.032	267.777	194.025	213.314	161.120	144.101
62.5	8810.557	7627.117	5774.234	1291.232	376.704	214.449	201.968	145.235	113.465	105.522
65.0	8605.186	7178.930	4747.376	958.779	268.912	195.160	166.794	107.792	93.041	111.196
67.5	7637.329	5961.451	2997.745	715.964	192.890	181.544	120.273	96.445	96.445	82.829
70.0	5246.622	3875.964	1417.178	403.935	145.235	130.485	98.715	93.041	70.348	59.002
72.5	2442.901	1674.743	634.269	208.776	119.138	88.503	88.503	71.483	55.598	40.847
75.0	1062.032	715.964	310.894	128.215	87.368	69.214	62.406	52.194	19.289	15.885
77.5	650.154	440.244	200.833	87.368	54.463	48.790	39.713	22.693	10.212	10.212
80.0	431.167	282.528	133.889	59.002	32.905	30.636	15.885	7.943	6.808	6.808
82.5	255.296	165.659	82.829	29.501	17.020	12.481	9.077	7.943	6.808	2.269
85.0	138.427	81.695	36.309	11.346	7.943	7.943	6.808	3.404	1.135	0.000
87.5	60.136	24.962	11.346	5.673	6.808	6.808	5.673	3.404	1.135	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

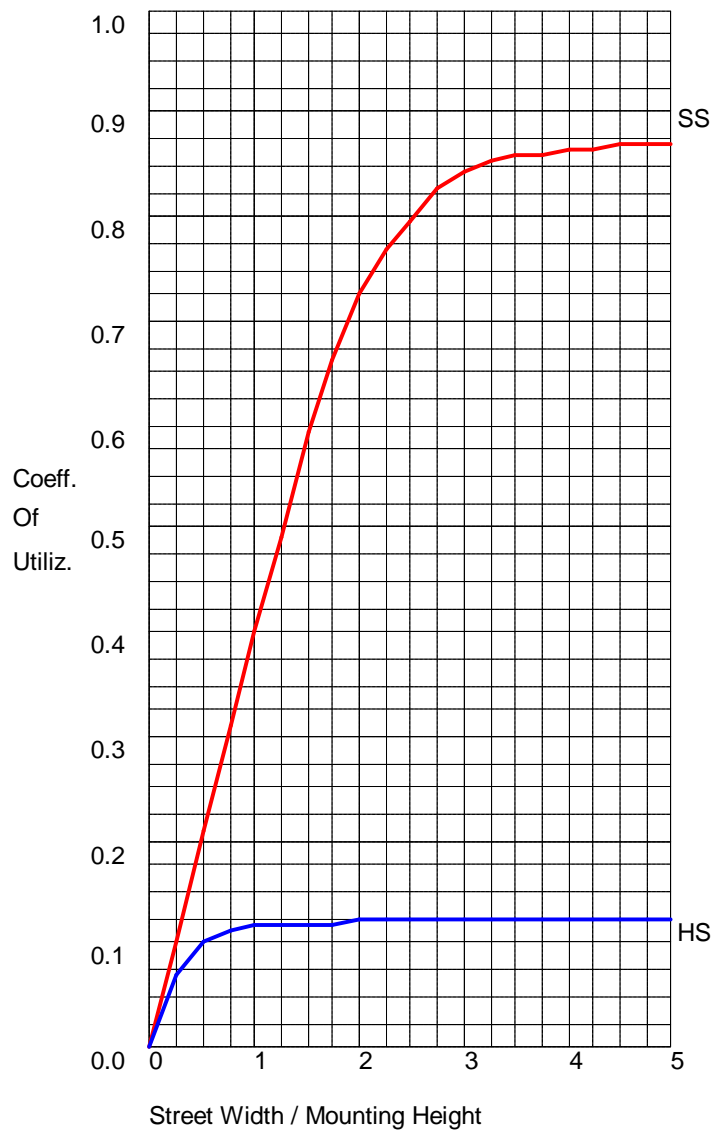
	175.0	180.0
0.0	4310.535	4310.535
2.5	4065.451	4064.316
5.0	3374.449	3389.200
7.5	2520.058	2528.000
10.0	1947.059	1945.925
12.5	1667.935	1642.973
15.0	1521.566	1504.546
17.5	1427.390	1416.043
20.0	1351.368	1341.156
22.5	1278.751	1269.673
25.0	1145.996	1133.515
27.5	920.201	905.451
30.0	702.348	692.136
32.5	607.038	603.634
35.0	524.208	516.266
37.5	439.110	435.706
40.0	406.205	402.801
42.5	472.014	442.513
45.0	342.664	307.490
47.5	259.835	256.431
50.0	233.738	232.603
52.5	231.469	231.469
55.0	274.585	273.451
57.5	189.487	178.140
60.0	122.542	118.004
62.5	90.772	88.503
65.0	100.984	98.715

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CANDELA TABULATION - (Cont.)

67.5	70.348	68.079
70.0	49.925	47.655
72.5	29.501	27.232
75.0	17.020	14.750
77.5	4.539	0.000
80.0	1.135	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

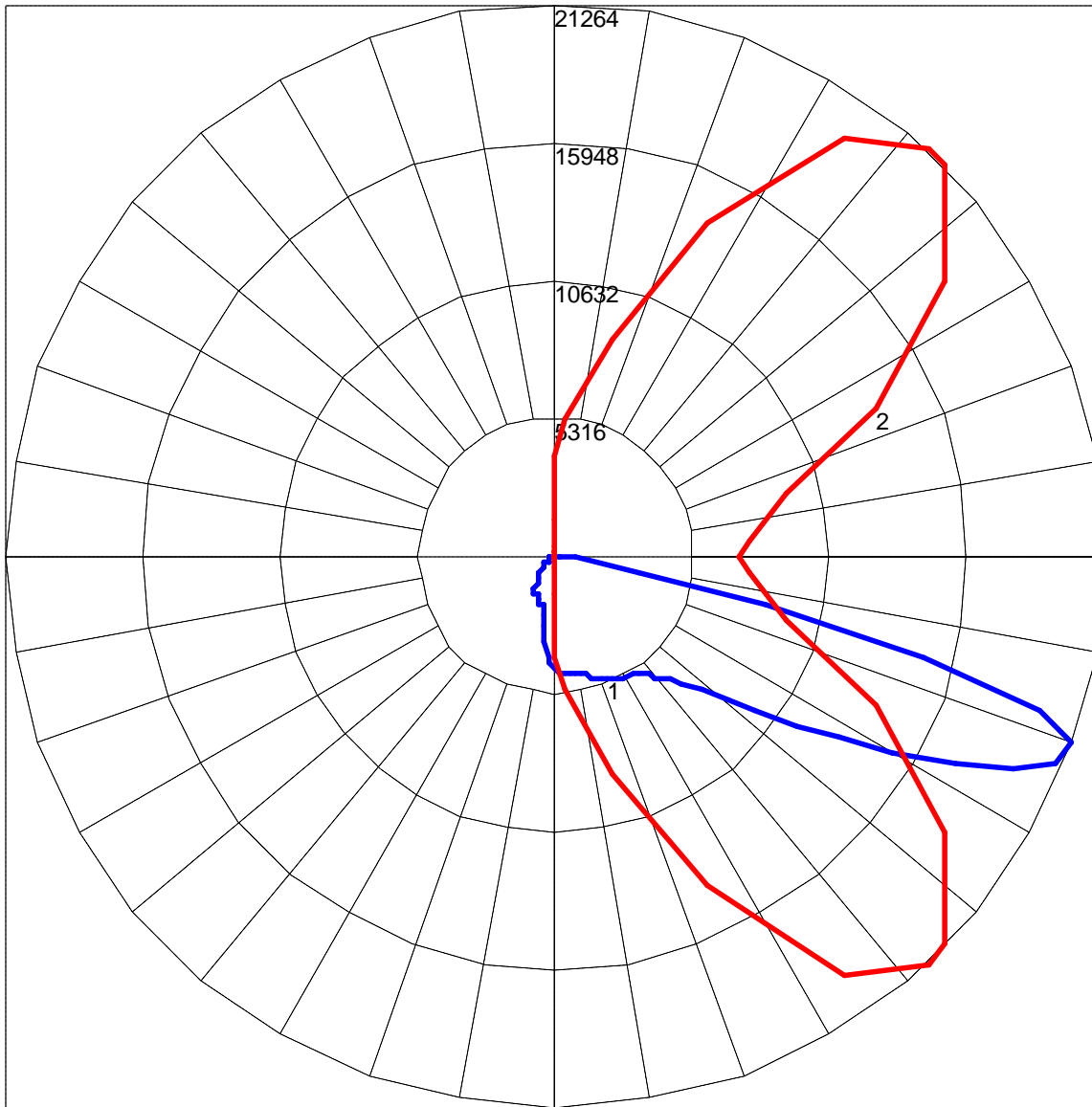
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

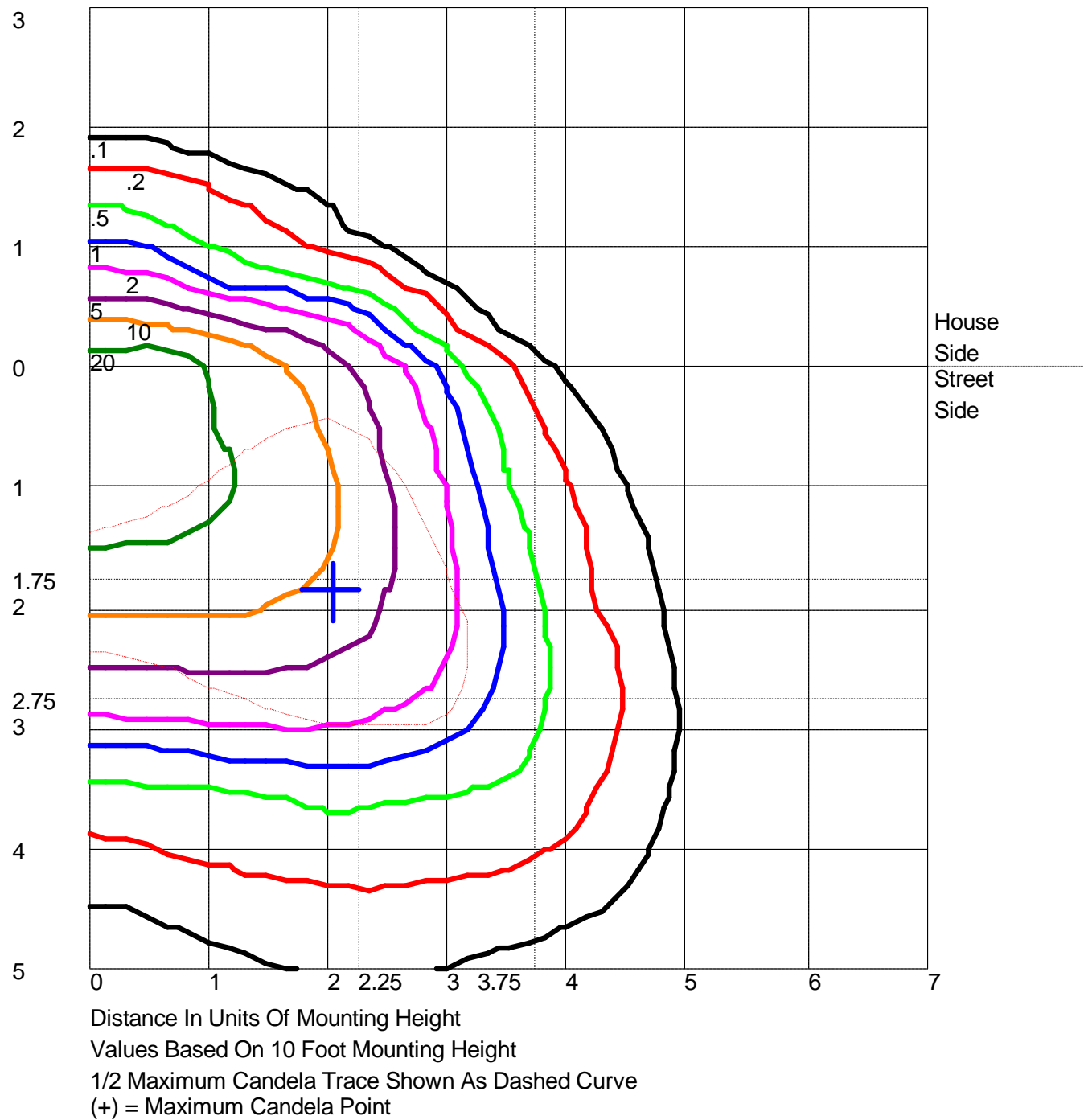
	Lumens	Percent Of Luminaire
Downward Street Side	21927.9	87.8
Downward House Side	3057.5	12.2
Downward Total	24985.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	24985.4	100.0

POLAR GRAPH

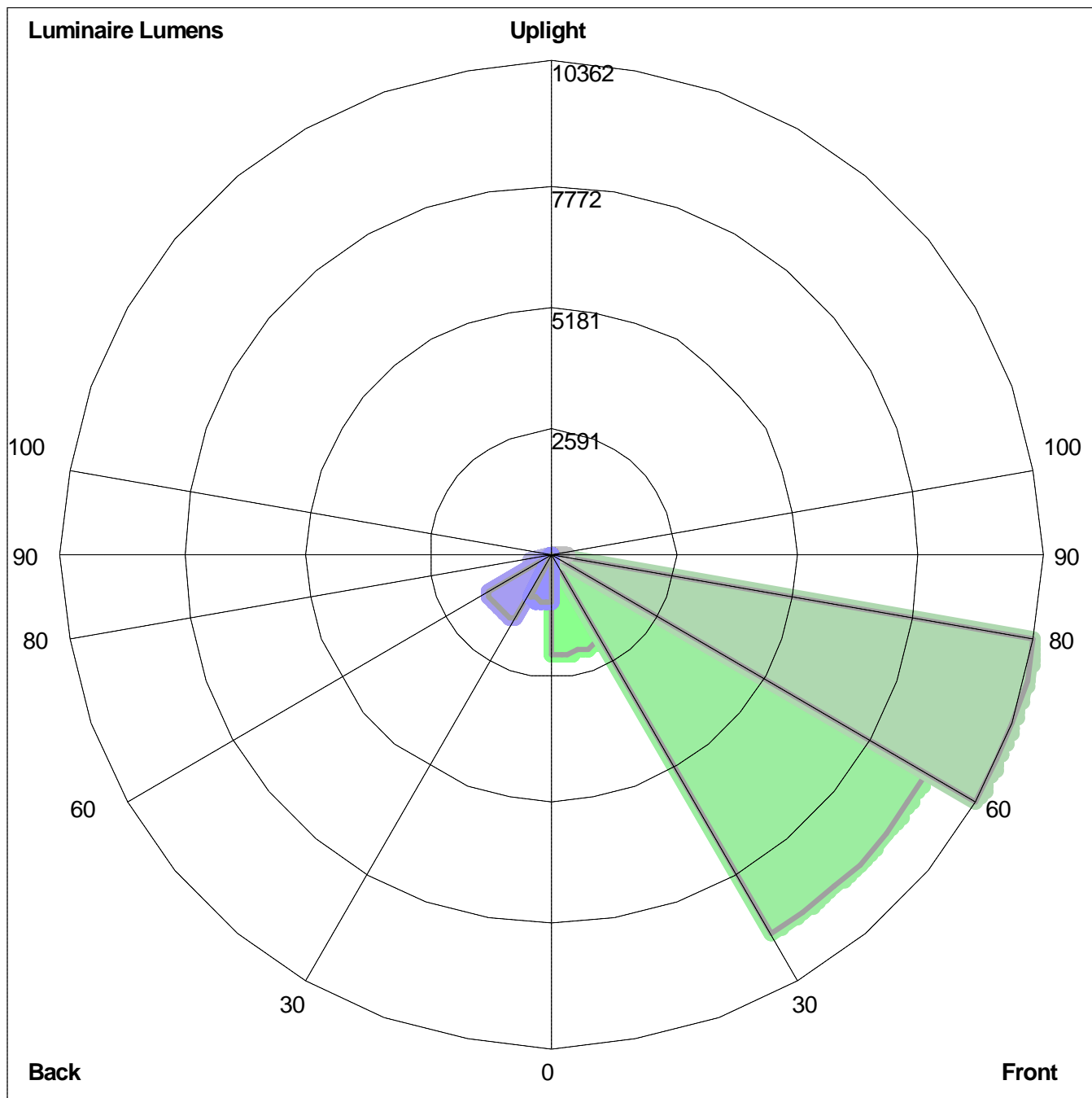


Maximum Candela = 21264.475 Located At Horizontal Angle = 47.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2111.9, Medium=9181.6, High=10362.5, Very High=272.0
Back: Low=1012.9, Medium=1588.2, High=449.0, Very High=7.3
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4