



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7786
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]05/05/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-FT-LED-35-50
[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	33421
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	315
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22174.781
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	22174.781
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	7308.723 (21.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-35-50.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2237.2	N.A.	6.7
FM - Front-Medium (30-60)	9332.4	N.A.	27.9
FH - Front-High (60-80)	12252.7	N.A.	36.7
FVH - Front-Very High (80-90)	583.3	N.A.	1.7
BL - Back-Low (0-30)	2145.5	N.A.	6.4
BM - Back-Medium (30-60)	4792.4	N.A.	14.3
BH - Back-High (60-80)	1933.7	N.A.	5.8
BVH - Back-Very High (80-90)	143.8	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	33421.0	N.A.	100.0
BUG Rating	B3-U0-G5		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-35-50.IES

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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098
2.5	4880.155	4881.306	4874.400	4883.608	4881.306	4882.457	4892.816	4893.967	4891.665	4881.306
5.0	4808.794	4809.945	4813.398	4837.569	4855.985	4874.400	4896.269	4926.194	4946.912	4949.214
7.5	4758.151	4754.698	4761.604	4796.134	4834.116	4869.796	4896.269	4958.422	5014.820	5059.708
10.0	4746.642	4743.189	4753.547	4798.436	4844.475	4889.363	4927.345	5010.216	5101.143	5182.863
12.5	4769.661	4767.359	4778.869	4829.512	4889.363	4944.610	4982.592	5085.030	5198.977	5320.981
15.0	4801.889	4801.889	4823.757	4880.155	4953.818	5021.726	5062.010	5177.108	5312.924	5460.249
17.5	4851.381	4852.532	4877.853	4948.063	5026.330	5108.049	5149.485	5272.639	5422.267	5591.461
20.0	4927.345	4928.496	4957.271	5028.632	5106.898	5196.675	5236.959	5365.869	5518.949	5704.257
22.5	5032.085	5038.990	5058.557	5127.616	5201.279	5279.545	5316.377	5451.041	5601.820	5797.486
25.0	5170.202	5179.410	5189.769	5247.318	5302.565	5365.869	5395.794	5516.647	5663.973	5857.337
27.5	5341.698	5349.755	5356.661	5391.190	5419.965	5457.947	5472.910	5567.290	5705.408	5891.867
30.0	5555.780	5545.422	5546.573	5558.082	5546.573	5556.931	5561.535	5613.329	5727.276	5899.923
32.5	5765.259	5753.749	5752.598	5744.541	5700.804	5672.029	5667.425	5668.576	5738.786	5883.810
35.0	5997.757	5981.643	5968.982	5944.812	5878.055	5827.412	5806.694	5745.692	5750.296	5857.337
37.5	6267.086	6249.821	6225.651	6180.763	6089.835	6039.192	6004.663	5864.243	5781.373	5835.469
40.0	6615.833	6618.135	6559.435	6490.376	6385.637	6298.163	6254.425	6058.759	5859.639	5837.771
42.5	7064.715	7067.017	6993.354	6900.125	6782.725	6671.080	6599.719	6359.164	6023.078	5887.263
45.0	7687.395	7689.697	7590.713	7521.654	7349.007	7184.417	7103.849	6791.933	6277.445	6006.965
47.5	8517.252	8521.856	8523.007	8424.023	8158.146	7923.346	7816.305	7403.103	6695.251	6253.274
50.0	9482.924	9493.283	9535.869	9520.907	9234.313	8914.340	8772.770	8300.868	7293.760	6630.796
52.5	10496.938	10575.204	10663.830	10814.608	10530.316	10231.061	9989.355	9418.469	8112.107	7176.360
55.0	11348.663	11443.043	11712.372	12183.123	12091.045	11723.882	11475.271	10831.873	9192.877	7984.348
57.5	12010.476	12069.176	12503.096	13406.615	13660.982	13441.144	13286.913	12605.533	10569.449	8899.377
60.0	12373.035	12473.170	13090.095	14376.891	15125.028	15240.126	15226.314	14586.369	12168.161	9952.524
62.5	12643.515	12764.368	13553.940	15205.597	16426.786	17300.380	17385.553	16831.931	13919.952	11163.355
65.0	12836.880	12961.186	13976.350	15893.883	17851.700	19152.307	19334.162	19122.382	15555.495	12062.270
67.5	12330.449	12411.017	13743.852	16425.636	19045.266	20709.583	20866.116	20634.769	16517.714	11931.059
70.0	11693.957	11745.751	12825.370	16201.194	20068.487	21994.077	22109.175	20686.563	15710.877	10137.832
72.5	9931.806	9873.106	11193.280	14444.799	20324.005	22136.798	22174.781	18657.386	12041.553	8583.884
75.0	5950.567	6361.466	8159.297	11477.573	17658.335	19941.879	19670.248	14068.428	6150.837	2605.819
77.5	2672.576	2989.095	4521.049	7415.764	11500.592	14313.587	13962.538	7651.715	2696.746	1482.462
80.0	1168.245	1346.647	2446.983	4081.375	5590.310	7308.723	7007.166	3647.456	1511.237	920.784
82.5	662.964	709.004	1538.860	2372.170	2596.611	3480.564	3284.897	1641.297	897.764	504.129
85.0	440.825	483.412	1027.825	1530.803	1803.586	1450.235	1272.984	567.433	432.768	241.706
87.5	306.161	339.539	715.910	805.686	1111.847	271.631	141.571	134.665	102.437	95.531
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	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098	4872.098
2.5	4891.665	4911.232	4906.628	4877.853	4888.212	4891.665	4897.420	4895.118	4885.910	4880.155
5.0	4960.724	4977.988	4969.932	4946.912	4961.875	4966.479	4971.083	4949.214	4922.741	4906.628
7.5	5075.822	5090.785	5083.879	5053.953	5062.010	5025.179	4960.724	4884.759	4832.965	4809.945
10.0	5228.902	5241.563	5227.751	5189.769	5144.881	5015.971	4918.138	4858.287	4829.512	4830.663
12.5	5401.549	5417.663	5395.794	5324.433	5190.920	5004.461	4928.496	4911.232	4898.571	4891.665
15.0	5579.951	5602.971	5569.592	5453.343	5208.184	5010.216	4980.290	4940.006	4925.043	4928.496
17.5	5749.145	5783.674	5741.088	5562.686	5213.939	5036.688	4987.196	4953.818	4940.006	4938.855
20.0	5897.621	5944.812	5899.923	5646.708	5211.637	5055.104	4984.894	4948.063	4927.345	4915.836
22.5	6011.569	6078.325	6035.739	5697.351	5204.732	5035.537	4969.932	4919.289	4888.212	4873.249
25.0	6092.137	6176.159	6141.629	5716.918	5187.467	5001.008	4930.798	4870.947	4832.965	4816.851
27.5	6139.327	6233.708	6214.141	5704.257	5151.786	4958.422	4872.098	4796.134	4763.906	4742.038

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-35-50.IES

CANDELA TABULATION - (Cont.)

30.0	6149.686	6252.123	6239.463	5658.218	5087.332	4895.118	4789.228	4713.263	4676.432	4656.865
32.5	6119.761	6226.802	6225.651	5588.008	4996.404	4803.040	4692.545	4609.675	4575.145	4555.579
35.0	6066.816	6164.649	6171.555	5491.326	4884.759	4692.545	4580.900	4492.275	4443.934	4447.387
37.5	6002.361	6087.533	6094.439	5373.926	4751.245	4565.938	4448.538	4351.855	4312.722	4324.232
40.0	5950.567	6009.267	6006.965	5248.469	4601.618	4423.216	4288.551	4196.473	4163.095	4219.493
42.5	5926.396	5944.812	5921.792	5103.445	4423.216	4250.569	4112.452	4019.222	4020.373	4425.518
45.0	5964.378	5931.000	5860.790	4965.328	4224.097	4068.714	3913.332	3824.707	4082.526	4272.438
47.5	6084.080	5980.492	5846.978	4836.418	3983.542	3864.991	3696.948	3634.795	4119.357	3858.085
50.0	6300.464	6108.251	5887.263	4712.112	3739.534	3644.003	3470.205	3536.962	3877.652	3427.618
52.5	6643.457	6346.504	6008.116	4606.222	3484.016	3390.787	3223.895	3471.356	3486.318	3119.156
55.0	7157.945	6692.949	6209.537	4519.898	3204.328	3137.571	2982.189	3303.313	3075.419	2873.997
57.5	7804.795	7146.435	6439.733	4435.877	2915.432	2882.054	2755.446	3044.342	2685.236	2588.554
60.0	8466.609	7603.374	6657.268	4358.761	2636.895	2643.801	2563.232	2737.030	2336.489	2328.433
62.5	9112.309	8000.462	6623.890	4243.663	2390.585	2427.417	2362.962	2417.058	2062.556	2093.633
65.0	9352.863	7923.346	5860.790	3940.956	2153.484	2200.674	2132.766	2173.050	1800.133	1893.362
67.5	8588.613	6839.123	4304.665	3322.879	1870.342	1975.082	1912.929	1972.780	1556.125	1743.735
70.0	6416.713	4762.755	2603.517	2479.211	1596.409	1714.960	1704.601	1805.888	1352.401	1653.958
72.5	3154.836	2289.299	1490.519	1604.466	1302.909	1442.178	1487.066	1596.409	1182.056	1583.748
75.0	1331.684	1014.013	812.592	1026.674	977.182	1131.413	1260.323	1322.476	979.484	1415.705
77.5	814.894	621.529	476.506	649.153	684.833	793.025	987.541	972.578	690.588	1119.904
80.0	532.904	405.145	326.878	452.335	491.468	565.131	646.851	606.566	516.790	840.215
82.5	298.104	227.894	214.082	311.916	360.257	342.992	425.863	453.486	369.465	549.017
85.0	156.533	116.249	125.457	195.667	188.761	202.572	269.329	262.423	214.082	321.123
87.5	56.398	39.133	48.341	74.814	74.814	86.323	120.853	113.947	111.645	133.514
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

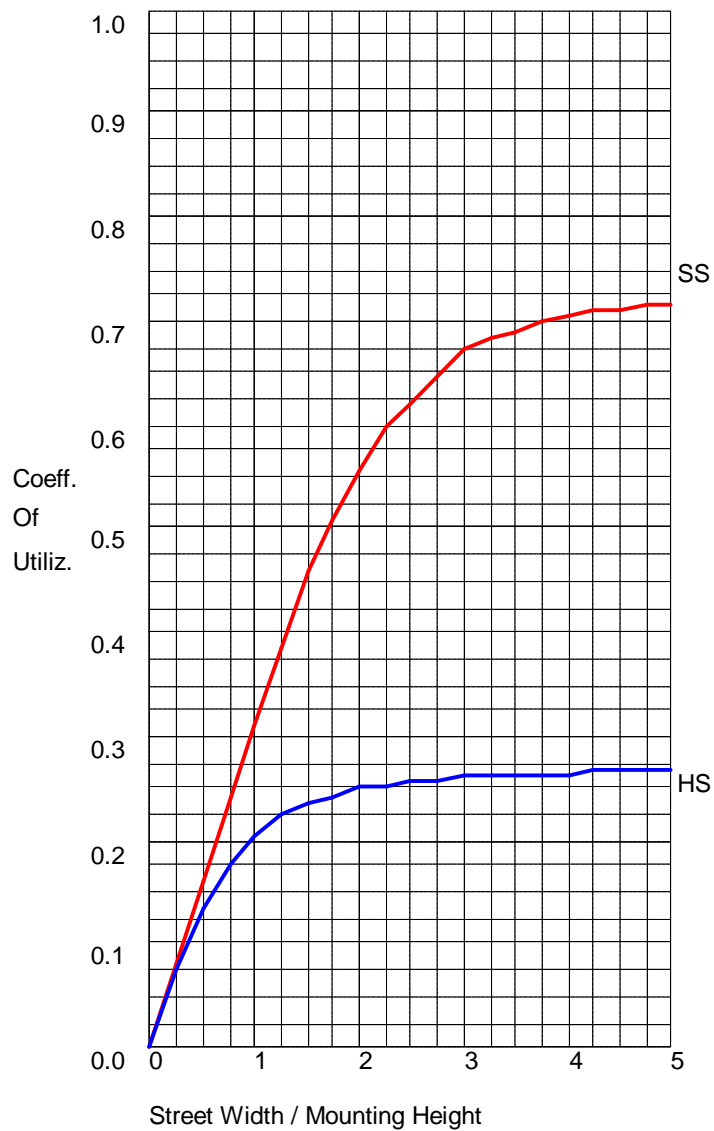
	<u>175.0</u>	<u>180.0</u>
0.0	4872.098	4872.098
2.5	4872.098	4849.079
5.0	4892.816	4866.343
7.5	4791.530	4767.359
10.0	4819.153	4798.436
12.5	4881.306	4858.287
15.0	4921.590	4896.269
17.5	4930.798	4906.628
20.0	4906.628	4882.457
22.5	4865.192	4841.022
25.0	4811.096	4788.077
27.5	4739.736	4716.716
30.0	4654.563	4634.996
32.5	4561.334	4544.069
35.0	4460.047	4442.783
37.5	4347.251	4334.591
40.0	4412.857	4428.971
42.5	4378.328	4321.930
45.0	3913.332	3850.028
47.5	3559.981	3523.150
50.0	3315.973	3287.199
52.5	3074.268	3047.795
55.0	2827.958	2803.787
57.5	2517.193	2483.815
60.0	2265.129	2236.354
62.5	2021.121	1990.044
65.0	1786.321	1760.999

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-35-50.IES

CANDELA TABULATION - (Cont.)

67.5	1625.184	1571.088
70.0	1545.766	1484.764
72.5	1520.445	1453.688
75.0	1428.366	1367.364
77.5	1294.852	1256.870
80.0	1062.355	1057.751
82.5	662.964	664.115
85.0	390.182	377.521
87.5	140.420	112.796
90.0	0.000	0.000

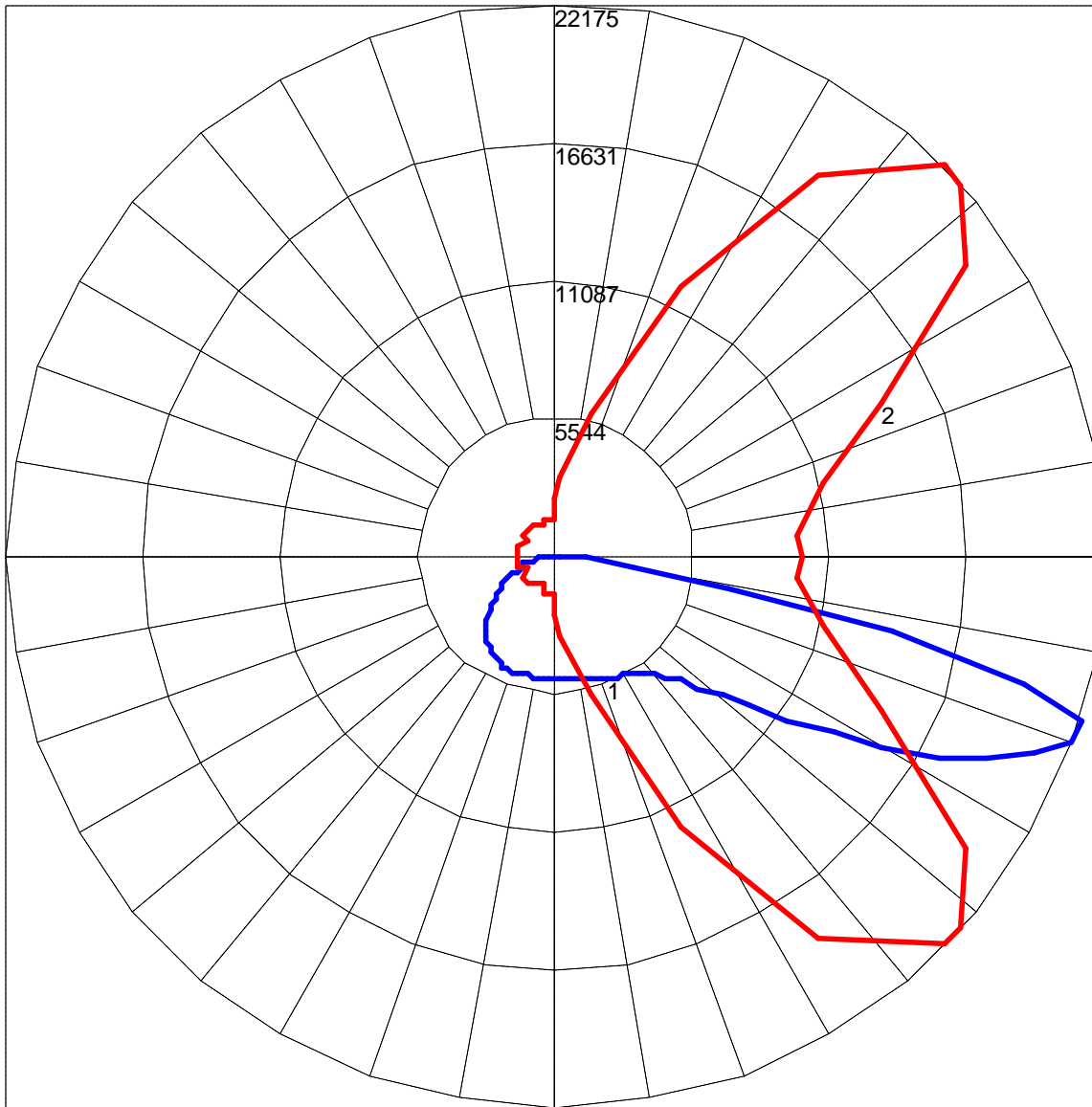
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

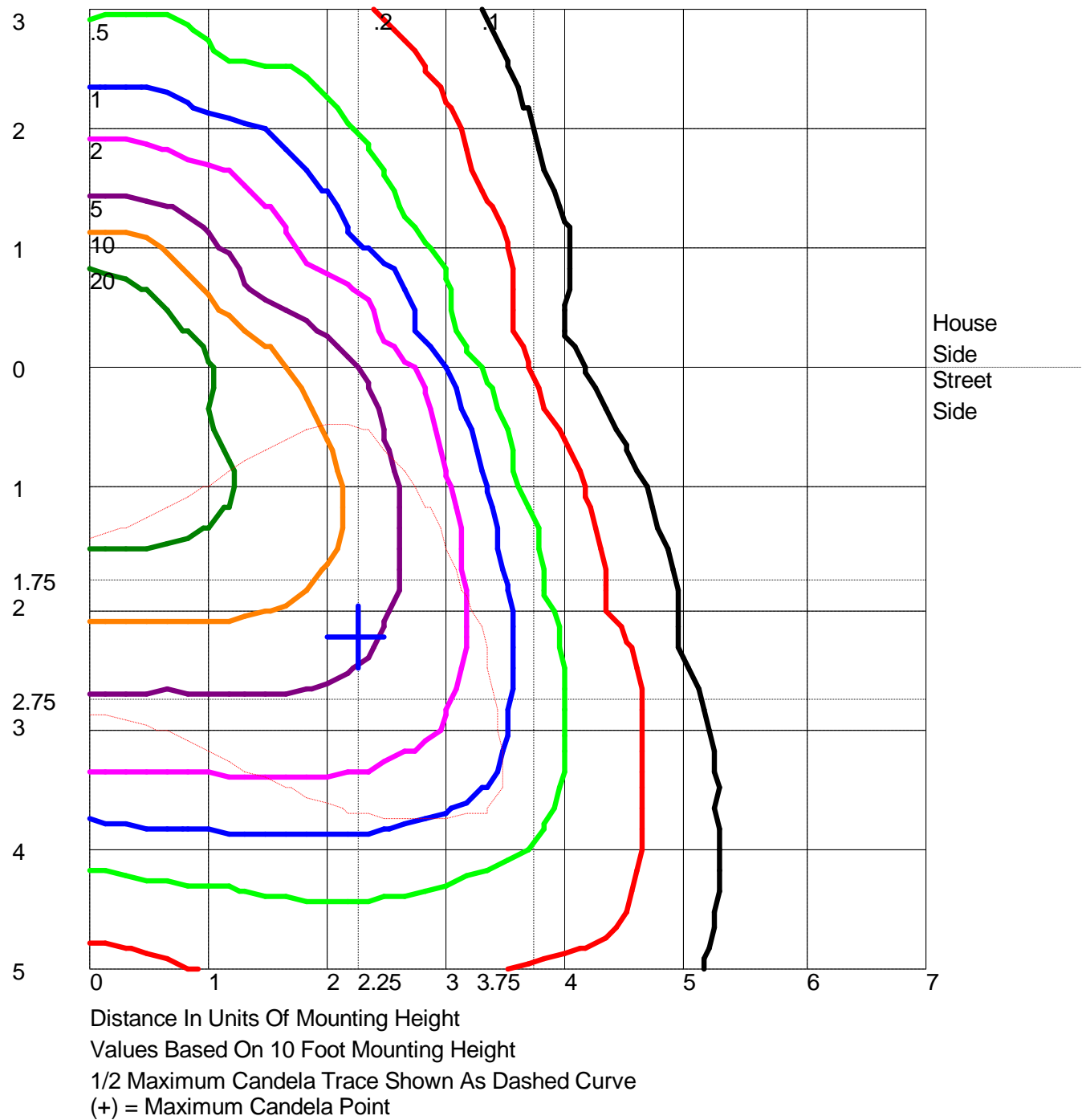
	Lumens	Percent Of Luminaire
Downward Street Side	24405.6	73.0
Downward House Side	9015.5	27.0
Downward Total	33421.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	33421.1	100.0

POLAR GRAPH

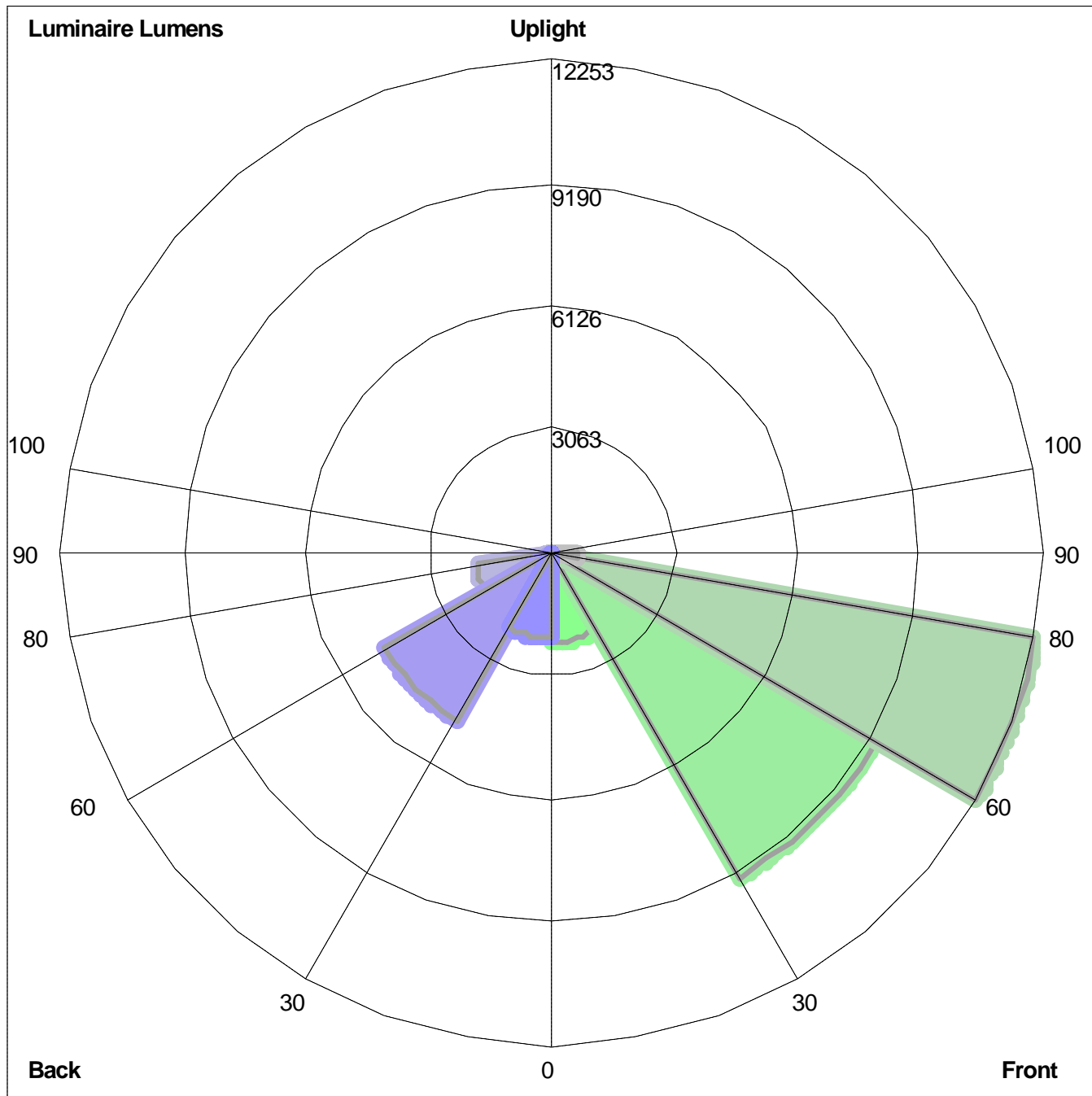


Maximum Candela = 22174.781 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2237.2, Medium=9332.4, High=12252.7, Very High=583.3
Back: Low=2145.5, Medium=4792.4, High=1933.7, Very High=143.8
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G5