



IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-29-40.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-29-40
[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	27876
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	241.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18495.745
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	18495.745
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	6096.127 (21.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1866.0	N.A.	6.7
FM - Front-Medium (30-60)	7784.0	N.A.	27.9
FH - Front-High (60-80)	10219.8	N.A.	36.7
FVH - Front-Very High (80-90)	486.6	N.A.	1.7
BL - Back-Low (0-30)	1789.6	N.A.	6.4
BM - Back-Medium (30-60)	3997.3	N.A.	14.3
BH - Back-High (60-80)	1612.9	N.A.	5.8
BVH - Back-Very High (80-90)	119.9	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	27876.1	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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765
2.5	4070.485	4071.445	4065.685	4073.365	4071.445	4072.405	4081.045	4082.005	4080.085	4071.445
5.0	4010.964	4011.924	4014.804	4034.964	4050.324	4065.685	4083.925	4108.886	4126.166	4128.086
7.5	3968.723	3965.843	3971.603	4000.403	4032.084	4061.845	4083.925	4135.766	4182.807	4220.248
10.0	3959.123	3956.242	3964.883	4002.323	4040.724	4078.165	4109.846	4178.967	4254.809	4322.970
12.5	3978.323	3976.403	3986.003	4028.244	4078.165	4124.246	4155.927	4241.368	4336.410	4438.172
15.0	4005.203	4005.203	4023.444	4070.485	4131.926	4188.567	4222.168	4318.170	4431.452	4554.335
17.5	4046.484	4047.444	4068.565	4127.126	4192.407	4260.569	4295.130	4397.852	4522.654	4663.777
20.0	4109.846	4110.806	4134.806	4194.327	4259.609	4334.490	4368.091	4475.613	4603.296	4757.859
22.5	4197.207	4202.968	4219.288	4276.889	4338.330	4403.612	4434.332	4546.655	4672.417	4835.621
25.0	4312.410	4320.090	4328.730	4376.731	4422.812	4475.613	4500.574	4601.376	4724.258	4885.542
27.5	4455.453	4462.173	4467.933	4496.734	4520.734	4552.415	4564.895	4643.617	4758.819	4914.342
30.0	4634.017	4625.376	4626.336	4635.937	4626.336	4634.977	4638.817	4682.018	4777.060	4921.063
32.5	4808.740	4799.140	4798.180	4791.460	4754.979	4730.979	4727.139	4728.099	4786.660	4907.622
35.0	5002.664	4989.224	4978.664	4958.503	4902.822	4860.581	4843.301	4792.420	4796.260	4885.542
37.5	5227.309	5212.909	5192.748	5155.307	5079.466	5037.225	5008.424	4891.302	4822.180	4867.301
40.0	5518.195	5520.115	5471.154	5413.553	5326.191	5253.229	5216.749	5053.545	4887.462	4869.221
42.5	5892.603	5894.523	5833.082	5755.320	5657.398	5564.276	5504.755	5304.111	5023.785	4910.502
45.0	6411.974	6413.894	6331.332	6273.731	6129.728	5992.445	5925.243	5665.078	5235.949	5010.344
47.5	7104.148	7107.988	7108.948	7026.386	6804.622	6608.778	6519.496	6174.849	5584.436	5215.789
50.0	7909.605	7918.245	7953.766	7941.285	7702.241	7435.355	7317.272	6923.664	6083.647	5530.675
52.5	8755.382	8820.664	8894.585	9020.348	8783.223	8533.618	8332.014	7855.844	6766.221	5985.725
55.0	9465.797	9544.519	9769.164	10161.812	10085.010	9778.764	9571.399	9034.748	7667.680	6659.659
57.5	10017.809	10066.770	10428.697	11182.313	11394.477	11211.114	11082.471	10514.139	8815.864	7422.875
60.0	10320.215	10403.737	10918.308	11991.610	12615.623	12711.625	12700.105	12166.334	10149.332	8301.293
62.5	10545.820	10646.622	11305.196	12682.824	13701.406	14430.061	14501.102	14039.333	11610.482	9311.234
65.0	10707.103	10810.785	11657.523	13256.916	14889.910	15974.733	16126.416	15949.772	12974.670	10061.010
67.5	10284.694	10351.896	11463.599	13700.446	15885.451	17273.640	17404.203	17211.239	13777.247	9951.567
70.0	9753.803	9797.004	10697.503	13513.242	16738.909	18345.022	18441.024	17254.440	13104.273	8455.856
72.5	8284.013	8235.052	9336.195	12048.251	16952.033	18464.065	18495.745	15561.924	10043.729	4882.662
75.0	4963.303	5306.031	6805.582	9573.319	14728.627	16633.307	16406.742	11734.325	5130.347	2173.485
77.5	2229.166	2493.172	3770.959	6185.409	9592.520	11938.809	11646.003	6382.213	2249.327	1236.506
80.0	974.420	1123.223	2041.003	3404.231	4662.817	6096.127	5844.602	3042.303	1260.506	768.016
82.5	552.972	591.372	1283.547	1978.601	2165.805	2903.100	2739.897	1368.989	748.816	420.489
85.0	367.688	403.208	857.298	1276.827	1504.351	1209.625	1061.782	473.290	360.968	201.604
87.5	255.365	283.206	597.132	672.014	927.379	226.565	118.082	112.322	85.442	79.682
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	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765	4063.765
2.5	4080.085	4096.405	4092.565	4068.565	4077.205	4080.085	4084.885	4082.965	4075.285	4070.485
5.0	4137.686	4152.087	4145.366	4126.166	4138.646	4142.486	4146.326	4128.086	4106.006	4092.565
7.5	4233.688	4246.168	4240.408	4215.448	4222.168	4191.447	4137.686	4074.325	4031.124	4011.924
10.0	4361.371	4371.931	4360.411	4328.730	4291.289	4183.767	4102.165	4052.244	4028.244	4029.204
12.5	4505.374	4518.814	4500.574	4441.053	4329.690	4174.167	4110.806	4096.405	4085.845	4080.085
15.0	4654.177	4673.377	4645.537	4548.575	4344.091	4178.967	4154.007	4120.406	4107.926	4110.806
17.5	4795.300	4824.101	4788.580	4639.777	4348.891	4201.048	4159.767	4131.926	4120.406	4119.446
20.0	4919.143	4958.503	4921.063	4709.858	4346.971	4216.408	4157.847	4127.126	4109.846	4100.245
22.5	5014.184	5069.866	5034.345	4752.099	4341.210	4200.088	4145.366	4103.126	4077.205	4064.725
25.0	5081.386	5151.467	5122.667	4768.419	4326.810	4171.287	4112.726	4062.805	4031.124	4017.684
27.5	5120.747	5199.468	5183.148	4757.859	4297.050	4135.766	4063.765	4000.403	3973.523	3955.282

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CANDELA TABULATION - (Cont.)

30.0	5129.387	5214.829	5204.268	4719.458	4243.288	4082.965	3994.643	3931.282	3900.561	3884.241
32.5	5104.426	5193.708	5192.748	4660.897	4167.447	4006.163	3914.002	3844.880	3816.080	3799.759
35.0	5060.265	5141.867	5147.627	4580.255	4074.325	3914.002	3820.880	3746.958	3706.637	3709.517
37.5	5006.504	5077.546	5083.306	4482.333	3962.963	3808.399	3710.477	3629.836	3597.195	3606.795
40.0	4963.303	5012.264	5010.344	4377.691	3838.160	3689.357	3577.035	3500.233	3472.392	3519.433
42.5	4943.143	4958.503	4939.303	4256.729	3689.357	3545.354	3430.151	3352.390	3353.350	3691.277
45.0	4974.824	4946.983	4888.422	4141.526	3523.273	3393.671	3264.068	3190.146	3405.191	3563.594
47.5	5074.666	4988.264	4876.902	4034.004	3322.629	3223.747	3083.584	3031.743	3435.912	3217.987
50.0	5255.150	5094.826	4910.502	3930.322	3119.105	3039.423	2894.460	2950.141	3234.307	2858.940
52.5	5541.235	5293.550	5011.304	3842.000	2905.981	2828.219	2689.016	2895.420	2907.901	2601.654
55.0	5970.364	5582.516	5179.308	3769.999	2672.696	2617.015	2487.412	2755.257	2565.173	2397.170
57.5	6509.896	5960.764	5371.312	3699.917	2431.731	2403.890	2298.288	2539.253	2239.727	2159.085
60.0	7061.907	6341.892	5552.756	3635.596	2199.406	2205.166	2137.965	2282.928	1948.841	1942.120
62.5	7600.478	6673.099	5524.915	3539.594	1993.962	2024.682	1970.921	2016.042	1720.356	1746.276
65.0	7801.123	6608.778	4888.422	3287.108	1796.197	1835.558	1778.917	1812.518	1501.471	1579.233
67.5	7163.669	5704.439	3590.475	2771.578	1560.033	1647.394	1595.553	1645.474	1297.947	1454.430
70.0	5352.112	3972.563	2171.565	2067.883	1331.548	1430.430	1421.790	1506.271	1128.024	1379.549
72.5	2631.415	1909.480	1243.226	1338.268	1086.743	1202.905	1240.346	1331.548	985.941	1320.988
75.0	1110.743	845.778	677.774	856.338	815.057	943.700	1051.222	1103.063	816.977	1180.825
77.5	679.694	518.411	397.448	541.451	571.212	661.454	823.697	811.217	576.012	934.099
80.0	444.489	337.927	272.646	377.288	409.929	471.370	539.531	505.931	431.049	700.815
82.5	248.645	190.084	178.564	260.165	300.486	286.086	355.207	378.248	308.166	457.930
85.0	130.563	96.962	104.642	163.203	157.443	168.964	224.645	218.885	178.564	267.846
87.5	47.041	32.641	40.321	62.401	62.401	72.002	100.802	95.042	93.122	111.362
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

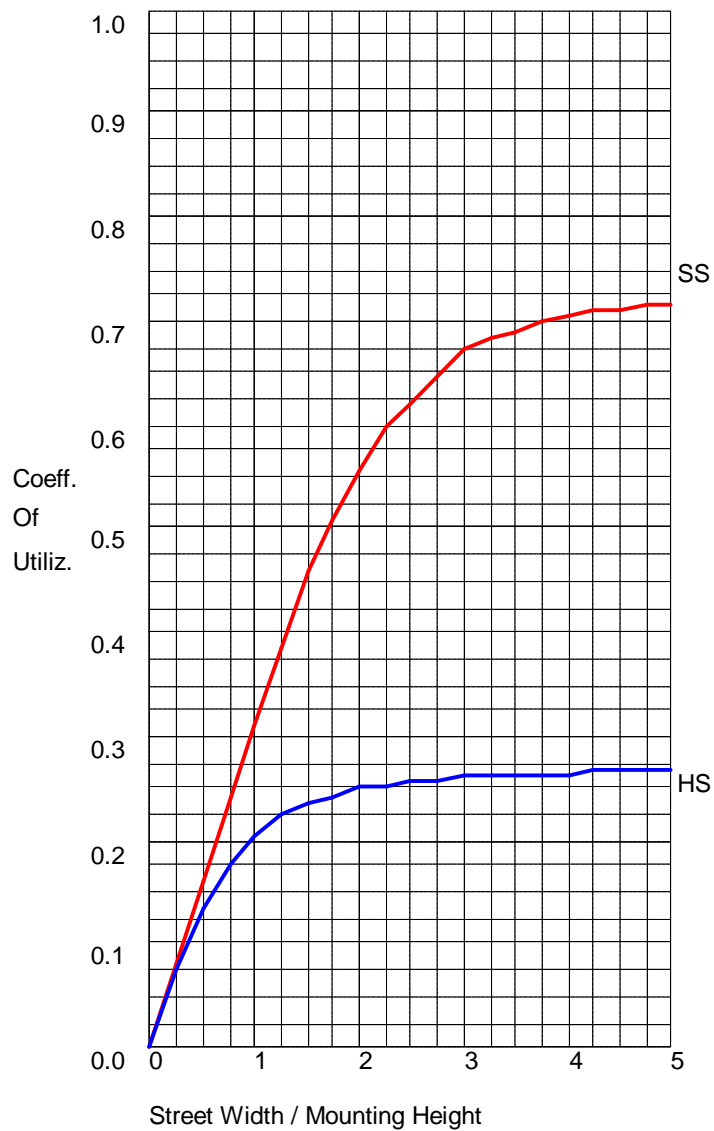
	<u>175.0</u>	<u>180.0</u>
0.0	4063.765	4063.765
2.5	4063.765	4044.564
5.0	4081.045	4058.965
7.5	3996.563	3976.403
10.0	4019.604	4002.323
12.5	4071.445	4052.244
15.0	4105.046	4083.925
17.5	4112.726	4092.565
20.0	4092.565	4072.405
22.5	4058.005	4037.844
25.0	4012.884	3993.683
27.5	3953.362	3934.162
30.0	3882.321	3866.001
32.5	3804.559	3790.159
35.0	3720.078	3705.677
37.5	3625.996	3615.435
40.0	3680.717	3694.157
42.5	3651.916	3604.875
45.0	3264.068	3211.267
47.5	2969.342	2938.621
50.0	2765.818	2741.817
52.5	2564.213	2542.133
55.0	2358.769	2338.609
57.5	2099.564	2071.723
60.0	1889.319	1865.319
62.5	1685.795	1659.875
65.0	1489.951	1468.831

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CANDELA TABULATION - (Cont.)

67.5	1355.548	1310.427
70.0	1289.307	1238.426
72.5	1268.186	1212.505
75.0	1191.385	1140.504
77.5	1080.023	1048.342
80.0	886.098	882.258
82.5	552.972	553.932
85.0	325.447	314.887
87.5	117.122	94.082
90.0	0.000	0.000

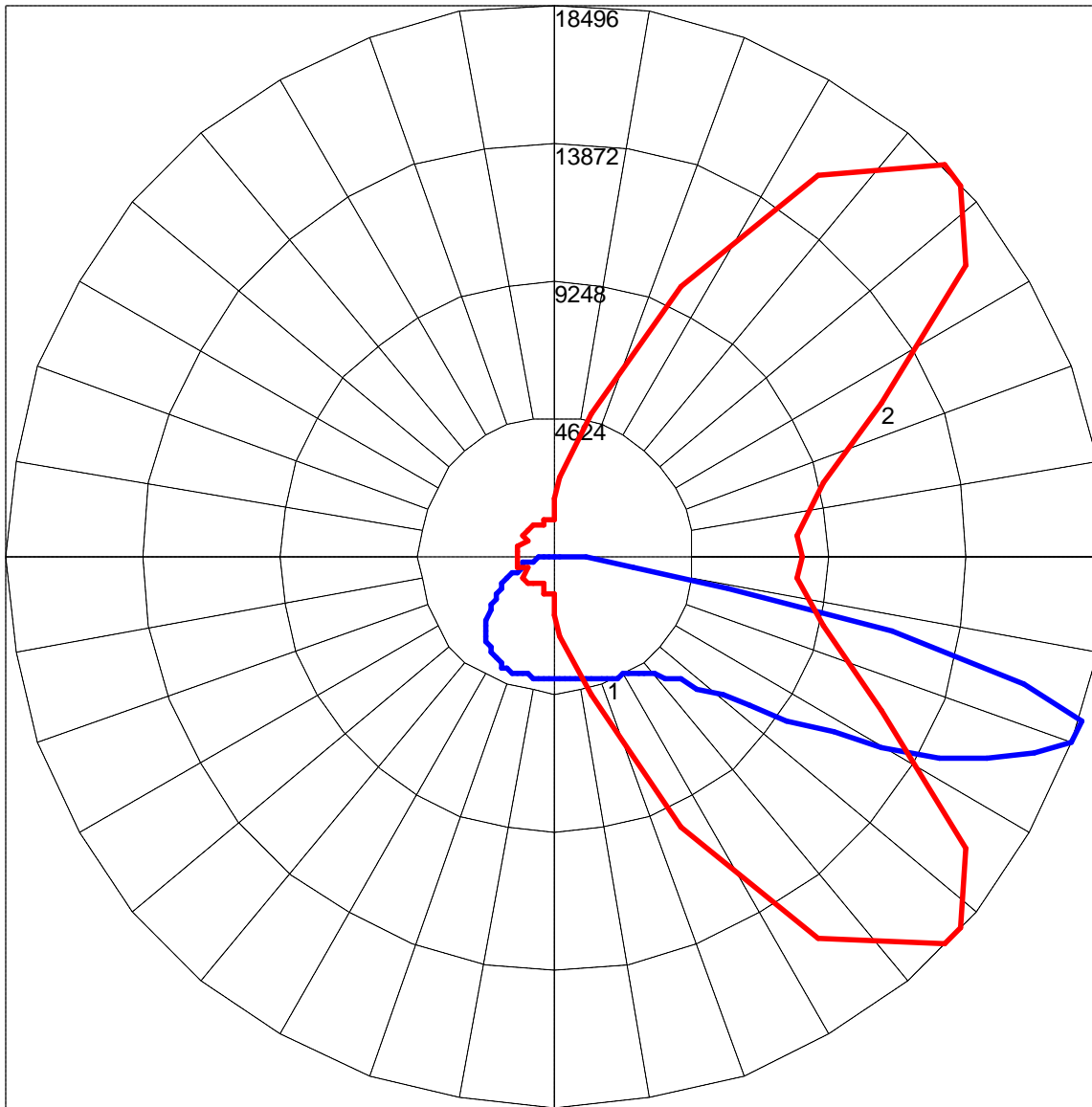
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

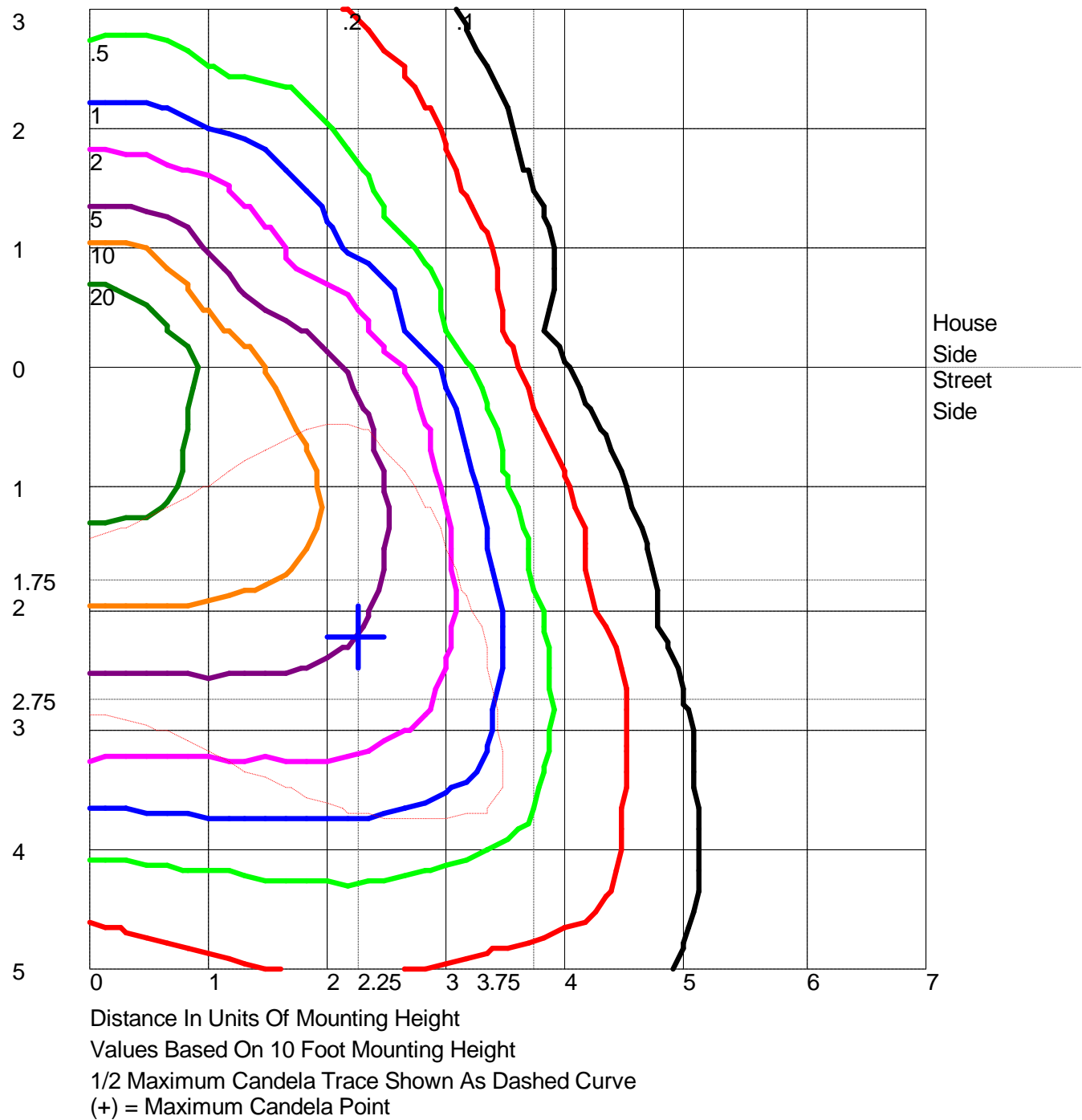
	Lumens	Percent Of Luminaire
Downward Street Side	20356.4	73.0
Downward House Side	7519.7	27.0
Downward Total	27876.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27876.2	100.0

POLAR GRAPH

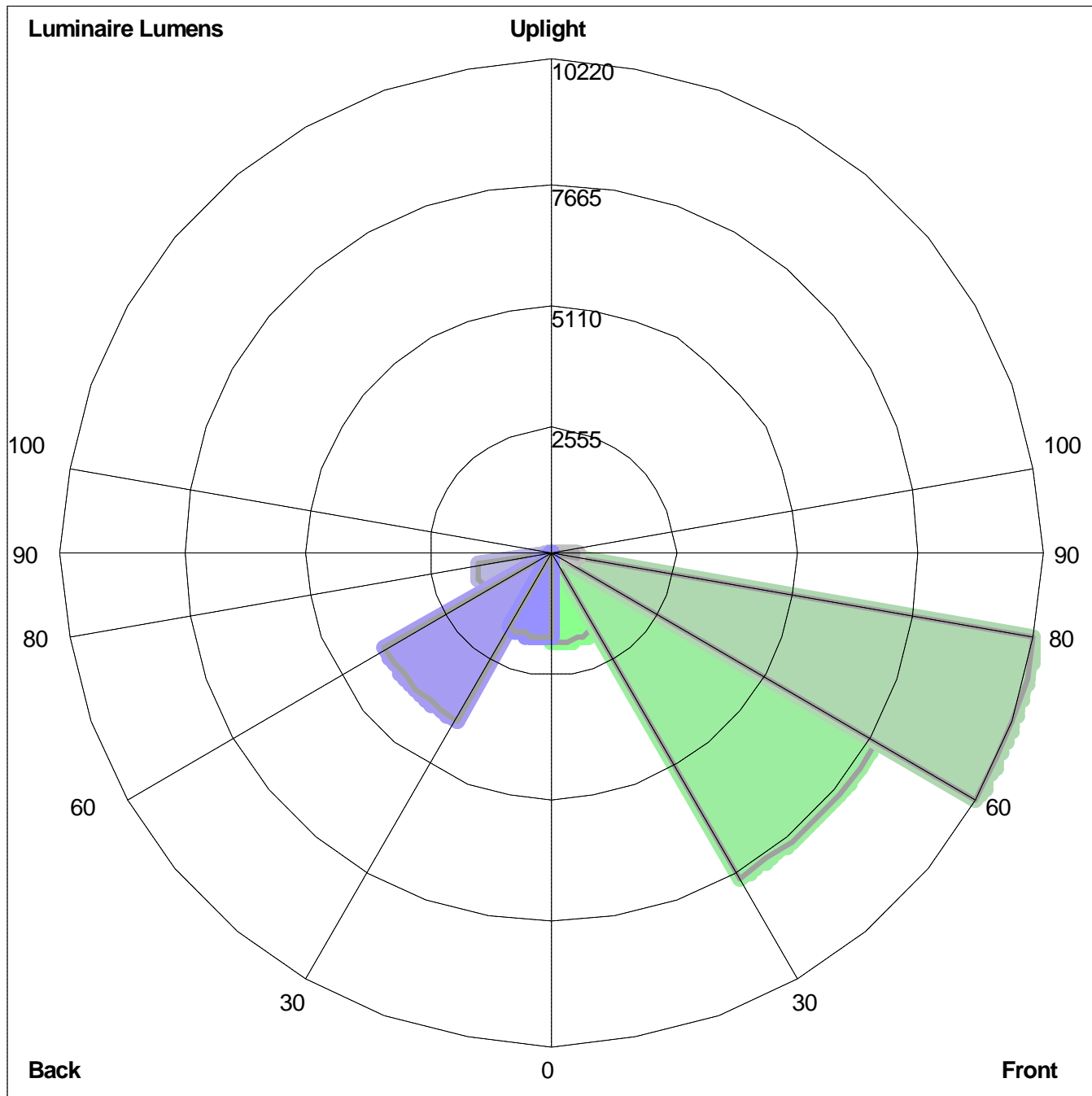


Maximum Candela = 18495.745 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1866.0, Medium= 7784.0, High=10219.8, Very High=486.6
Back: Low=1789.6, Medium=3997.3, High=1612.9, Very High=119.9
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4