



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-FT-LED-35-40.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-35-40
[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	32084
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	315
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21287.775
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	21287.775
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	7016.369 (21.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-35-40.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2147.7	N.A.	6.7
FM - Front-Medium (30-60)	8959.1	N.A.	27.9
FH - Front-High (60-80)	11762.6	N.A.	36.7
FVH - Front-Very High (80-90)	560.0	N.A.	1.7
BL - Back-Low (0-30)	2059.7	N.A.	6.4
BM - Back-Medium (30-60)	4600.7	N.A.	14.3
BH - Back-High (60-80)	1856.4	N.A.	5.8
BVH - Back-Very High (80-90)	138.1	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	32084.3	N.A.	100.0
BUG Rating	B3-U0-G4		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-35-40.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	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211
2.5	4684.946	4686.051	4679.421	4688.261	4686.051	4687.156	4697.100	4698.205	4695.995	4686.051
5.0	4616.440	4617.544	4620.859	4644.063	4661.742	4679.421	4700.415	4729.143	4749.032	4751.242
7.5	4567.822	4564.507	4571.137	4604.285	4640.748	4675.001	4700.415	4760.082	4814.224	4857.316
10.0	4556.773	4553.458	4563.402	4606.495	4650.693	4693.785	4730.248	4809.804	4897.094	4975.545
12.5	4578.872	4576.662	4587.711	4636.328	4693.785	4746.822	4783.286	4881.625	4991.014	5108.138
15.0	4609.810	4609.810	4630.804	4684.946	4755.662	4820.853	4859.526	4970.020	5100.403	5241.836
17.5	4657.322	4658.427	4682.736	4750.137	4825.273	4903.724	4943.502	5061.730	5205.373	5367.799
20.0	4730.248	4731.353	4758.977	4827.483	4902.619	4988.804	5027.477	5151.231	5298.188	5476.083
22.5	4830.798	4837.428	4856.212	4922.508	4993.224	5068.360	5103.718	5232.996	5377.743	5565.583
25.0	4963.391	4972.230	4982.175	5037.422	5090.459	5151.231	5179.959	5295.978	5437.410	5623.040
27.5	5128.027	5135.761	5142.391	5175.539	5203.163	5239.626	5253.990	5344.595	5477.188	5656.188
30.0	5333.546	5323.601	5324.706	5335.756	5324.706	5334.651	5339.070	5388.793	5498.182	5663.923
32.5	5534.645	5523.595	5522.490	5514.756	5472.768	5445.145	5440.725	5441.830	5509.231	5648.454
35.0	5757.843	5742.373	5730.219	5707.015	5642.929	5594.312	5574.423	5515.861	5520.281	5623.040
37.5	6016.399	5999.825	5976.621	5933.528	5846.238	5797.620	5764.472	5629.670	5550.114	5602.046
40.0	6351.195	6353.405	6297.053	6230.757	6130.207	6046.232	6004.244	5816.404	5625.250	5604.256
42.5	6782.122	6784.332	6713.616	6624.116	6511.412	6404.233	6335.726	6104.794	5782.151	5651.768
45.0	7379.895	7382.105	7287.080	7220.783	7055.042	6897.036	6819.690	6520.251	6026.343	5766.682
47.5	8176.556	8180.976	8182.081	8087.056	7831.815	7606.407	7503.648	7106.974	6427.436	6003.139
50.0	9103.601	9113.546	9154.428	9140.064	8864.934	8557.761	8421.853	7968.828	7002.005	6365.560
52.5	10077.05310152.18910237.27010382.01710109.0979821.812	9589.775	9041.724	7787.618	6889.301					
55.0	10894.70910985.314111243.87011695.79111607.39511254.91911016.25210398.5918825.156	7664.969								
57.5	11530.04911586.40112002.96412870.34213114.53412903.49012755.42812101.30410146.6658543.397									
60.0	11878.10611974.23512566.48313801.80614520.01714630.51114617.25214002.90511681.4269554.417									
62.5	12137.76712253.78513011.77414597.36315769.70416608.35416690.12016158.64313363.14510716.814									
65.0	12323.39612442.73013417.28715258.11717137.62018386.20318560.78318357.47414933.26511579.772									
67.5	11837.22311914.56913194.08915768.60018283.44319881.18620031.45819809.36515856.99511453.809									
70.0	11226.19111275.91312312.34715553.13619265.73521114.30021224.79419859.08815082.4329732.312									
72.5	9534.528	9478.176	10745.54213866.99819511.03221251.31221287.77517911.07811559.8835619.725							
75.0	5712.540	6107.004	7832.920	11018.46216951.99019144.19118883.42613505.6825904.800	2501.584					
77.5	2565.671	2869.529	4340.205	7119.129	11040.56113741.03513404.0287345.641	2588.875	1423.163			
80.0	1121.514	1292.780	2349.103	3918.117	5366.694	7016.369	6726.875	3501.555	1450.786	883.952
82.5	636.445	680.643	1477.305	2277.281	2492.745	3341.339	3153.499	1575.645	861.853	483.964
85.0	423.192	464.075	986.711	1469.570	1731.441	1392.224	1222.064	544.735	415.457	232.037
87.5	293.914	325.957	687.273	773.458	1067.372	260.766	135.908	129.278	98.340	91.710
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	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211	4677.211
2.5	4695.995	4714.779	4710.359	4682.736	4692.680	4695.995	4701.520	4699.310	4690.471	4684.946
5.0	4762.292	4778.866	4771.131	4749.032	4763.397	4767.816	4772.236	4751.242	4725.829	4710.359
7.5	4872.786	4887.150	4880.520	4851.792	4859.526	4824.168	4762.292	4689.366	4639.643	4617.544
10.0	5019.743	5031.897	5018.638	4982.175	4939.082	4815.329	4721.409	4663.952	4636.328	4637.433
12.5	5185.484	5200.953	5179.959	5111.453	4983.280	4804.279	4731.353	4714.779	4702.625	4695.995
15.0	5356.749	5378.848	5346.805	5235.206	4999.854	4809.804	4781.076	4742.403	4728.039	4731.353
17.5	5519.176	5552.324	5511.441	5340.175	5005.378	4835.218	4787.705	4755.662	4742.403	4741.298
20.0	5661.713	5707.015	5663.923	5420.836	5003.169	4852.897	4785.495	4750.137	4730.248	4719.199
22.5	5771.102	5835.188	5794.306	5469.453	4996.539	4834.113	4771.131	4722.514	4692.680	4678.316
25.0	5848.448	5929.108	5895.960	5488.237	4979.965	4800.965	4733.563	4676.106	4639.643	4624.174
27.5	5893.750	5984.355	5965.571	5476.083	4945.712	4760.082	4677.211	4604.285	4573.347	4552.353

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-35-40.IES

CANDELA TABULATION - (Cont.)

30.0	5903.695	6002.034	5989.880	5431.885	4883.835	4699.310	4597.656	4524.730	4489.371	4470.587
32.5	5874.966	5977.726	5976.621	5364.484	4796.545	4610.915	4504.841	4425.285	4392.137	4373.353
35.0	5824.139	5918.059	5924.689	5271.669	4689.366	4504.841	4397.661	4312.581	4266.174	4269.488
37.5	5762.262	5844.028	5850.658	5158.965	4561.193	4383.297	4270.593	4177.778	4140.210	4151.260
40.0	5712.540	5768.892	5766.682	5038.527	4417.550	4246.285	4117.007	4028.611	3996.568	4050.710
42.5	5689.336	5707.015	5684.917	4899.304	4246.285	4080.544	3947.951	3858.451	3859.556	4248.495
45.0	5725.799	5693.756	5626.355	4766.711	4055.130	3905.963	3756.796	3671.716	3919.222	4101.537
47.5	5840.713	5741.269	5613.095	4642.958	3824.198	3710.389	3549.067	3489.401	3954.580	3703.759
50.0	6048.442	5863.917	5651.768	4523.625	3589.950	3498.240	3331.394	3395.481	3722.543	3290.511
52.5	6377.714	6092.639	5767.787	4421.970	3344.654	3255.153	3094.937	3332.499	3346.863	2994.388
55.0	6871.622	6425.226	5961.152	4339.100	3076.153	3012.067	2862.900	3171.178	2952.400	2759.035
57.5	7492.599	6860.573	6182.140	4258.439	2798.813	2766.770	2645.226	2922.566	2577.825	2485.010
60.0	8127.939	7299.234	6390.973	4184.408	2531.418	2538.047	2460.702	2627.547	2243.028	2235.294
62.5	8747.810	7680.438	6358.930	4073.914	2294.960	2330.319	2268.442	2320.374	1980.053	2009.886
65.0	8978.743	7606.407	5626.355	3783.315	2067.343	2112.645	2047.454	2086.127	1728.126	1817.626
67.5	8245.063	6565.554	4132.476	3189.962	1795.528	1896.077	1836.410	1893.867	1493.879	1673.984
70.0	6160.041	4572.242	2499.374	2380.041	1532.552	1646.361	1636.416	1733.651	1298.305	1587.799
72.5	3028.641	2197.726	1430.897	1540.286	1250.792	1384.490	1427.583	1532.552	1134.773	1520.398
75.0	1278.416	973.452	780.088	985.607	938.094	1086.156	1209.909	1269.576	940.304	1359.076
77.5	782.298	596.668	457.445	623.186	657.439	761.304	948.039	933.674	662.964	1075.107
80.0	511.587	388.939	313.803	434.241	471.809	542.526	620.976	582.303	496.118	806.606
82.5	286.179	218.778	205.519	299.439	345.846	329.272	408.828	435.346	354.686	527.056
85.0	150.272	111.599	120.438	187.840	181.210	194.469	258.556	251.926	205.519	308.278
87.5	54.142	37.568	46.407	71.821	71.821	82.871	116.019	109.389	107.179	128.173
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

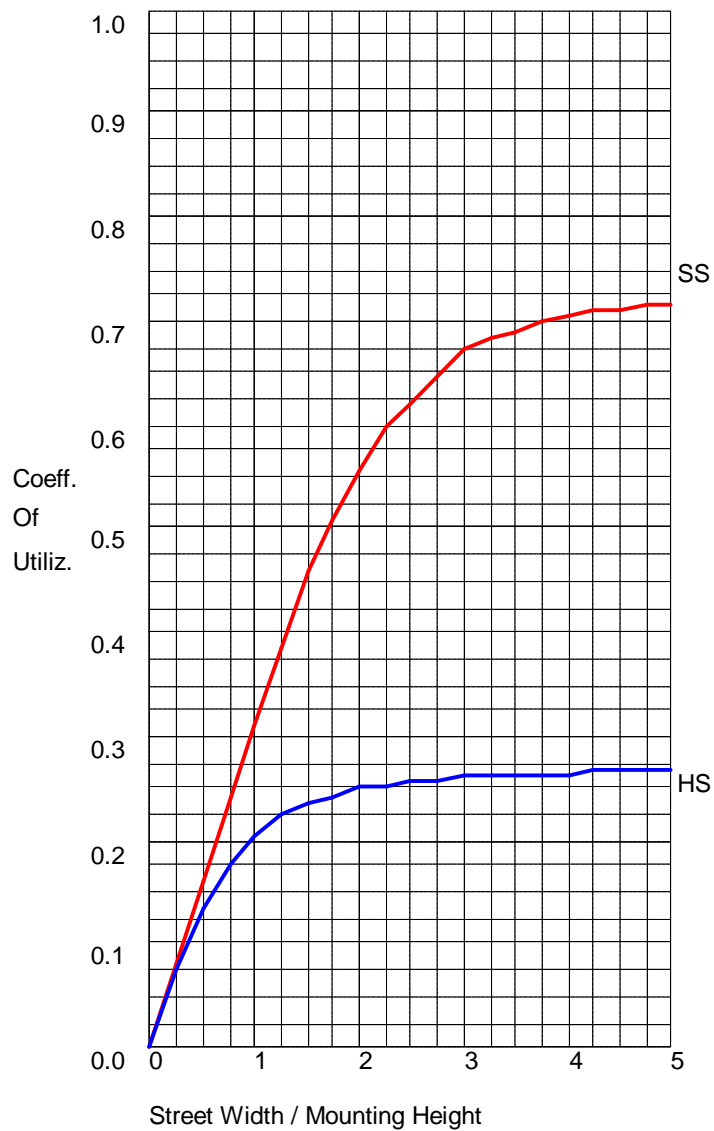
	<u>175.0</u>	<u>180.0</u>
0.0	4677.211	4677.211
2.5	4677.211	4655.112
5.0	4697.100	4671.687
7.5	4599.865	4576.662
10.0	4626.384	4606.495
12.5	4686.051	4663.952
15.0	4724.724	4700.415
17.5	4733.563	4710.359
20.0	4710.359	4687.156
22.5	4670.582	4647.378
25.0	4618.649	4596.551
27.5	4550.143	4528.044
30.0	4468.378	4449.594
32.5	4378.877	4362.303
35.0	4281.643	4265.069
37.5	4173.359	4161.204
40.0	4236.340	4251.809
42.5	4203.192	4149.050
45.0	3756.796	3696.024
47.5	3417.580	3382.222
50.0	3183.332	3155.709
52.5	2951.295	2925.881
55.0	2714.838	2691.634
57.5	2416.504	2384.461
60.0	2174.522	2146.899
62.5	1940.275	1910.441
65.0	1714.867	1690.558

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-35-40.IES

CANDELA TABULATION - (Cont.)

67.5	1560.175	1508.243
70.0	1483.934	1425.373
72.5	1459.626	1395.539
75.0	1371.231	1312.669
77.5	1243.058	1206.595
80.0	1019.860	1015.440
82.5	636.445	637.550
85.0	374.575	362.420
87.5	134.803	108.284
90.0	0.000	0.000

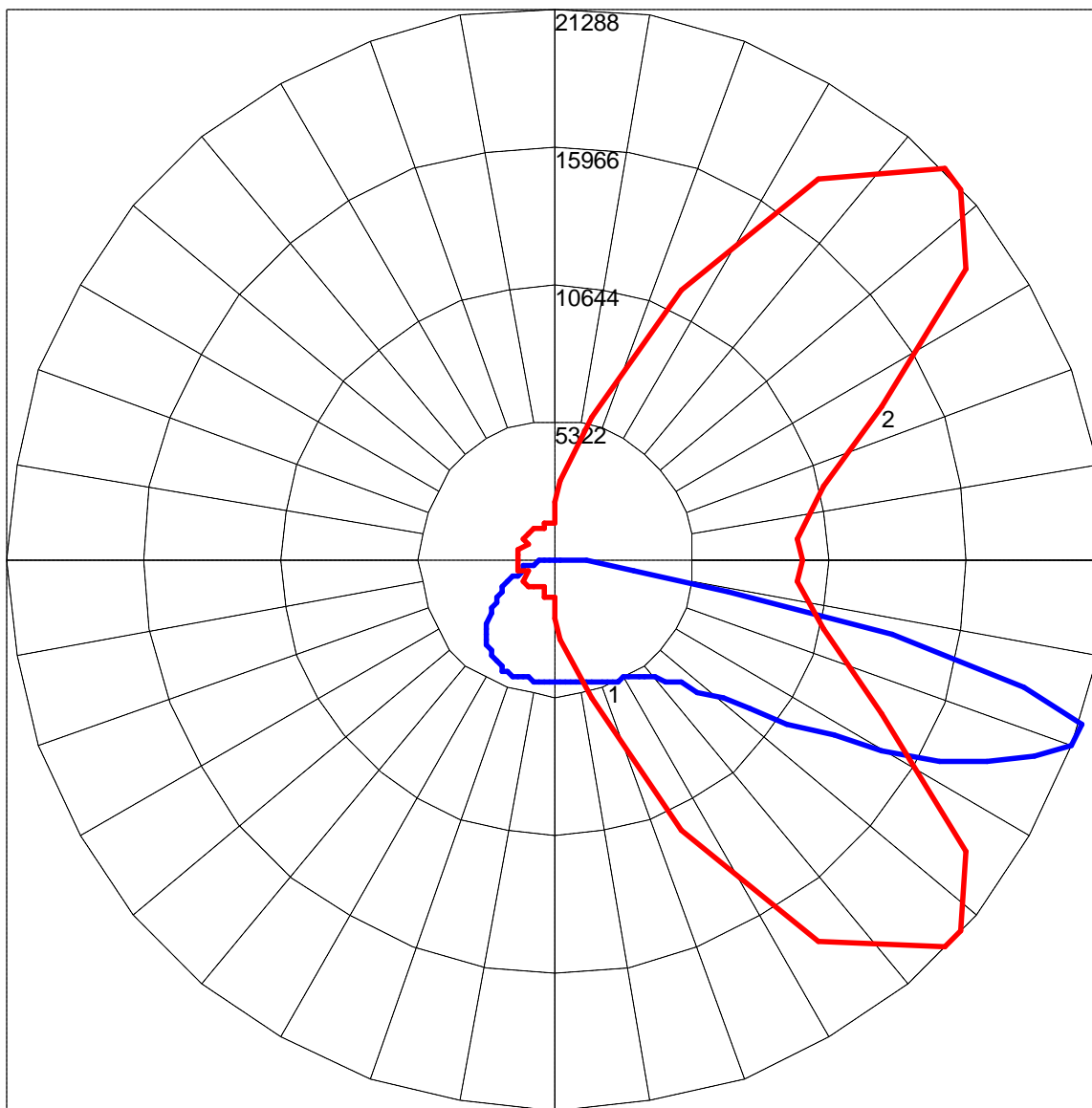
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

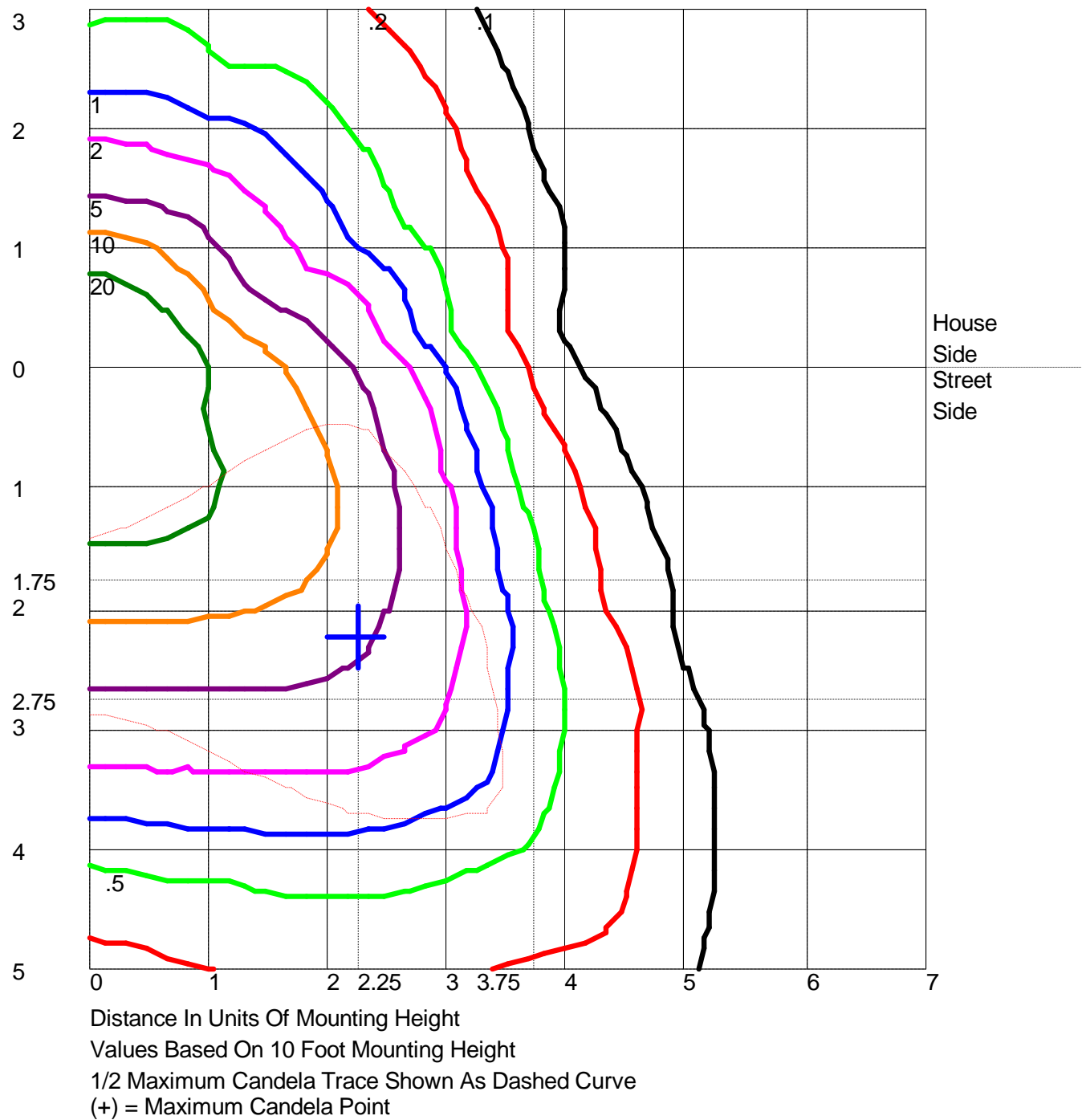
	Lumens	Percent Of Luminaire
Downward Street Side	23429.4	73.0
Downward House Side	8654.9	27.0
Downward Total	32084.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	32084.3	100.0

POLAR GRAPH

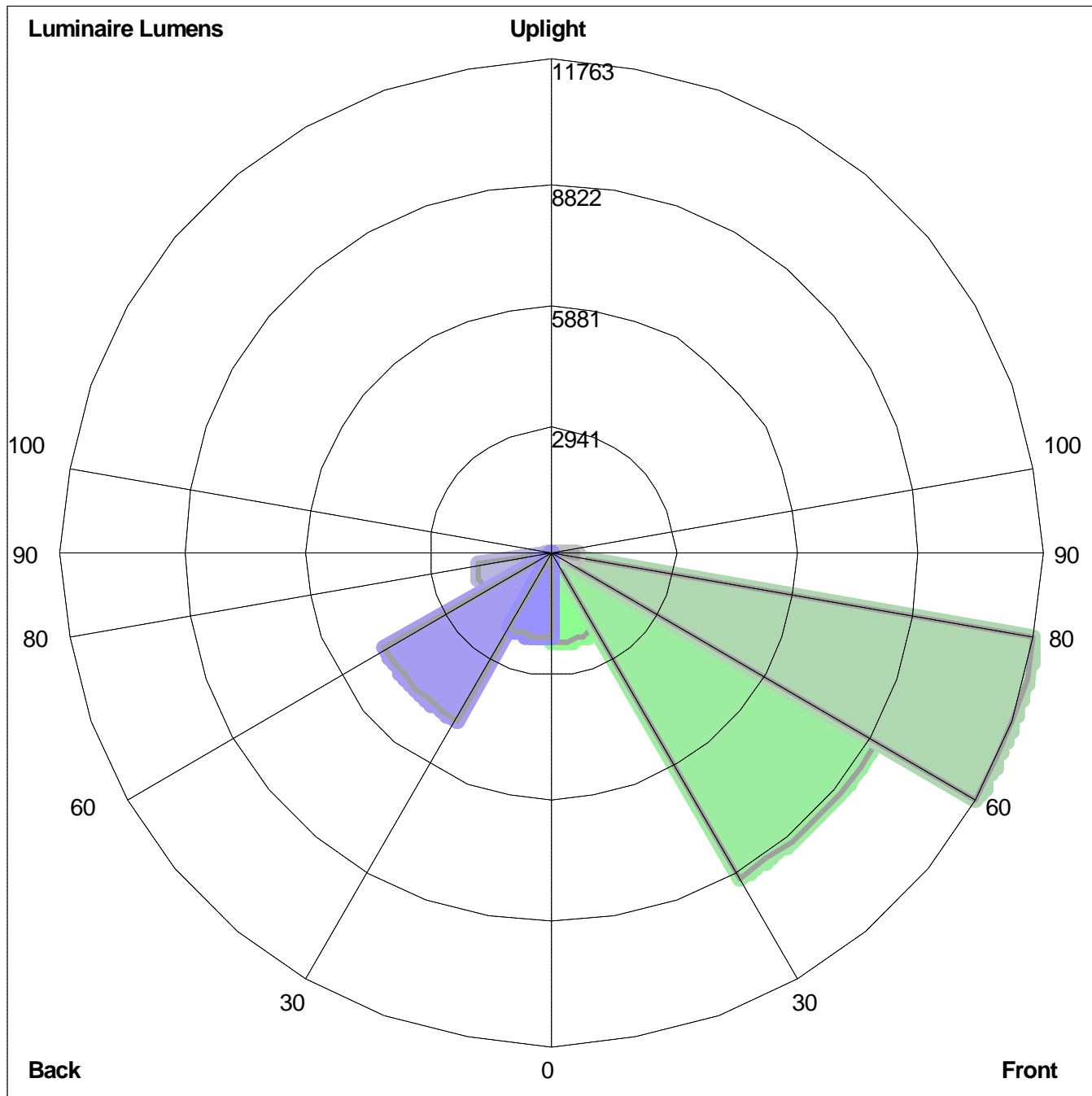


Maximum Candela = 21287.775 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2147.7, Medium=8959.1, High=11762.6, Very High=560.0
Back: Low=2059.7, Medium=4600.7, High=1856.4, Very High=138.1
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4