



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-2-LED-32L-30-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-8625\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]4/03/17  
[TEST DATE]03/01/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT] HLN-2-LED-32L-30-IL  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21608
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	314
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22322.854
Maximum Candela Angle	80H 67.5V
Maximum Candela (<90 Degrees Vertical)	22322.854
Maximum Candela Angle (<90 Degrees Vertical)	80H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1767.008 (8.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-2-LED-32L-30-IL.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2051.1	N.A.	9.5
FM - Front-Medium (30-60)	9763.5	N.A.	45.2
FH - Front-High (60-80)	6424.8	N.A.	29.7
FVH - Front-Very High (80-90)	93.3	N.A.	0.4
BL - Back-Low (0-30)	1033.0	N.A.	4.8
BM - Back-Medium (30-60)	1592.0	N.A.	7.4
BH - Back-High (60-80)	645.5	N.A.	3.0
BVH - Back-Very High (80-90)	5.3	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	21608.5	N.A.	100.0
BUG Rating	B3-U0-G3		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-2-LED-32L-30-IL.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352
2.5	4073.364	4068.227	4069.254	4072.336	4076.446	4071.309	4072.336	4062.063	4053.844	4046.653
5.0	4142.195	4138.085	4141.167	4145.277	4152.468	4147.331	4144.249	4124.730	4110.347	4098.020
7.5	4216.162	4212.053	4218.217	4230.545	4235.682	4227.463	4221.299	4196.643	4177.124	4157.605
10.0	4302.458	4300.404	4308.622	4325.059	4333.278	4319.923	4309.650	4283.966	4260.338	4238.764
12.5	4408.273	4405.191	4419.574	4438.066	4446.284	4433.956	4440.120	4414.437	4393.891	4365.125
15.0	4488.405	4487.378	4516.143	4557.236	4583.947	4592.165	4614.767	4590.111	4564.427	4528.471
17.5	4524.362	4528.471	4565.455	4631.204	4707.226	4781.194	4826.397	4813.041	4770.921	4730.855
20.0	4562.373	4567.509	4607.575	4695.926	4809.959	4950.703	5063.710	5057.546	5005.152	4955.840
22.5	4607.575	4610.657	4655.860	4786.331	4919.884	5078.092	5296.914	5344.171	5258.902	5204.454
25.0	4615.794	4615.794	4689.762	4851.052	5027.753	5196.235	5482.860	5652.370	5560.938	5501.352
27.5	4625.040	4633.258	4721.609	4906.528	5120.213	5308.214	5627.714	5985.225	5899.956	5839.344
30.0	4708.254	4718.527	4807.905	4993.851	5227.055	5437.658	5780.786	6311.916	6311.916	6232.811
32.5	4880.845	4888.036	4972.277	5138.705	5367.799	5606.140	5962.624	6597.514	6740.312	6651.962
35.0	5151.033	5150.005	5220.891	5360.608	5557.856	5828.043	6184.527	6849.209	7192.338	7105.015
37.5	5514.708	5507.516	5551.692	5670.862	5833.180	6108.504	6455.742	7088.577	7675.183	7600.188
40.0	5942.077	5928.722	5958.514	6040.701	6177.336	6461.906	6773.187	7360.820	8132.345	8144.673
42.5	6466.015	6440.332	6442.387	6496.835	6597.514	6914.959	7160.490	7649.499	8555.605	8649.092
45.0	7166.654	7173.846	7101.933	7101.933	7098.851	7463.553	7612.516	7924.824	8921.334	9175.085
47.5	8168.301	8176.520	8185.766	8058.377	7891.949	8170.356	8228.914	8279.253	9326.102	9814.084
50.0	9051.805	9079.543	9092.898	9141.183	9176.112	9312.747	9076.461	8796.000	9820.248	10527.051
52.5	9162.757	9179.194	9289.118	9636.356	10279.464	11075.645	10389.389	9497.666	10433.564	11373.571
55.0	8723.059	8768.262	8982.974	9476.092	10595.882	12412.202	12747.111	10554.789	11135.230	12397.819
57.5	7897.086	7964.890	8285.417	8836.066	10240.426	12664.925	14994.909	12128.658	12032.089	13506.308
60.0	6444.441	6535.874	6899.549	7501.564	9065.160	11905.728	16628.364	14637.398	13229.956	15056.549
62.5	3651.131	3757.973	4183.288	5133.568	6688.946	9730.870	17533.442	18121.075	14459.670	17268.391
65.0	1251.288	1295.463	1409.497	2016.649	3572.027	6152.680	17272.500	20198.336	16219.487	19852.126
67.5	668.792	665.710	672.901	803.372	1375.595	2809.748	13868.956	20459.278	18493.995	22322.854
70.0	428.397	419.151	431.479	500.310	696.530	1136.227	6708.465	18000.877	19323.051	21738.304
72.5	215.739	221.903	234.231	302.035	455.107	682.147	2387.515	12250.911	17722.471	15834.238
75.0	111.979	114.034	114.034	159.236	283.543	487.982	1113.626	5521.899	9511.022	6324.244
77.5	61.640	63.694	65.749	86.296	145.881	308.199	607.152	2581.680	3755.919	2081.371
80.0	54.448	55.476	53.421	60.612	78.077	145.881	312.308	912.269	1767.008	911.242
82.5	54.448	53.421	50.339	53.421	66.776	94.514	151.018	409.905	786.935	494.146
85.0	48.285	47.257	45.203	46.230	55.476	86.296	140.744	257.860	440.725	317.445
87.5	24.656	22.601	23.629	28.765	39.039	71.913	144.854	305.117	328.746	207.521
90.0	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>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352	4035.352
2.5	4040.489	4027.134	4042.544	4044.598	4047.680	4039.462	4027.134	4028.161	4024.052	4021.997
5.0	4089.801	4071.309	4082.610	4074.391	4065.145	4037.407	4003.505	3977.822	3948.029	3924.401
7.5	4139.113	4116.511	4122.675	4100.074	4064.118	3998.369	3920.291	3845.296	3767.219	3695.306
10.0	4215.135	4183.288	4182.261	4137.058	4053.844	3920.291	3761.055	3622.366	3472.376	3316.221
12.5	4339.442	4300.404	4296.294	4212.053	4062.063	3816.531	3508.332	3174.450	2822.076	2506.685
15.0	4491.487	4441.148	4425.738	4296.294	4058.981	3656.268	3018.296	2398.816	1873.850	1502.984
17.5	4680.516	4611.685	4583.947	4388.754	4030.216	3288.483	2274.509	1499.902	1003.701	793.099
20.0	4890.091	4817.151	4763.729	4488.405	3939.811	2695.714	1525.585	873.231	571.196	490.036
22.5	5126.377	5050.354	4966.113	4595.247	3702.497	2015.622	958.499	536.266	448.943	417.096
25.0	5415.057	5328.761	5219.864	4723.664	3304.921	1424.907	602.015	455.107	406.823	376.003
27.5	5747.912	5648.261	5516.762	4847.970	2804.611	944.116	490.036	417.096	368.811	335.937

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-2-LED-32L-30-IL.IES**

**CANDELA TABULATION - (Cont.)**

30.0	6161.926	6035.564	5876.328	4915.774	2251.907	625.644	448.943	379.085	331.828	294.844
32.5	6588.268	6458.824	6268.768	4913.720	1615.990	517.774	407.850	341.074	289.707	243.477
35.0	7038.238	6895.439	6662.235	4793.522	1075.615	470.517	365.729	298.953	233.204	177.728
37.5	7533.411	7380.339	7091.659	4522.307	713.994	423.260	322.582	242.450	160.263	110.952
40.0	8064.541	7905.305	7553.958	4064.118	555.786	374.975	274.297	173.619	95.542	64.722
42.5	8634.709	8437.462	7993.655	3380.943	493.118	329.773	214.712	106.842	53.421	34.929
45.0	9203.850	8991.193	8440.544	2575.516	442.779	282.516	145.881	58.558	24.656	14.383
47.5	9862.368	9651.766	8856.612	1754.680	394.495	231.149	91.432	28.765	9.246	4.109
50.0	10668.822	10456.165	9260.353	1112.598	345.183	172.591	53.421	13.355	3.082	1.027
52.5	11573.900	11303.712	9541.841	767.416	297.926	118.143	25.683	6.164	2.055	1.027
55.0	12707.045	12319.742	9710.324	669.819	257.860	76.022	15.410	4.109	3.082	2.055
57.5	14008.672	13489.871	9749.362	693.448	238.341	46.230	9.246	4.109	4.109	4.109
60.0	15537.340	14694.929	9460.682	723.240	233.204	24.656	7.191	4.109	5.137	5.137
62.5	18008.068	16153.738	8776.481	699.612	226.013	16.437	6.164	4.109	5.137	4.109
65.0	19897.328	17267.363	7346.437	594.824	192.111	23.629	5.137	4.109	3.082	2.055
67.5	21298.606	16925.262	5140.760	399.631	132.526	16.437	5.137	2.055	3.082	6.164
70.0	19073.410	13469.324	2539.560	186.974	68.831	13.355	3.082	3.082	4.109	2.055
72.5	11998.188	7211.857	941.034	82.186	34.929	11.301	2.055	2.055	1.027	0.000
75.0	4549.017	2808.720	422.233	34.929	14.383	6.164	2.055	0.000	0.000	0.000
77.5	1266.698	849.602	241.423	15.410	8.219	3.082	1.027	0.000	0.000	0.000
80.0	591.742	427.369	149.990	10.273	5.137	2.055	0.000	0.000	0.000	0.000
82.5	301.008	224.985	77.050	9.246	5.137	0.000	0.000	0.000	0.000	0.000
85.0	184.919	128.416	30.820	7.191	2.055	1.027	1.027	1.027	1.027	0.000
87.5	106.842	53.421	10.273	3.082	3.082	2.055	2.055	2.055	1.027	1.027
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**

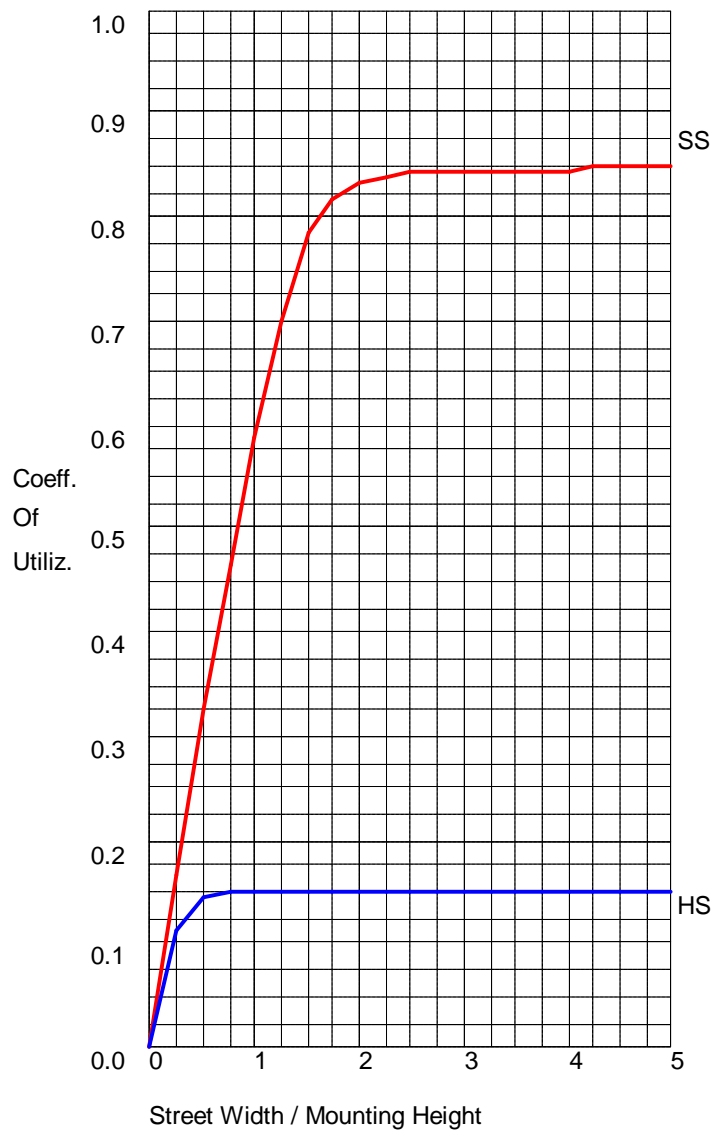
	<u>175</u>	<u>180</u>
0.0	4035.352	4035.352
2.5	4015.833	4005.560
5.0	3900.772	3889.472
7.5	3658.322	3644.967
10.0	3228.898	3208.352
12.5	2345.394	2318.684
15.0	1343.748	1321.146
17.5	690.366	679.065
20.0	463.326	458.189
22.5	403.741	402.713
25.0	361.620	359.566
27.5	320.527	317.445
30.0	274.297	273.270
32.5	218.821	216.767
35.0	152.045	145.881
37.5	92.460	87.323
40.0	52.394	51.367
42.5	27.738	27.738
45.0	10.273	9.246
47.5	0.000	0.000
50.0	0.000	0.000
52.5	0.000	0.000
55.0	0.000	0.000
57.5	2.055	1.027
60.0	3.082	2.055
62.5	1.027	0.000
65.0	0.000	0.000

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-2-LED-32L-30-IL.IES**

**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	3.082	3.082
<b>70.0</b>	0.000	0.000
<b>72.5</b>	0.000	0.000
<b>75.0</b>	0.000	0.000
<b>77.5</b>	0.000	0.000
<b>80.0</b>	0.000	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

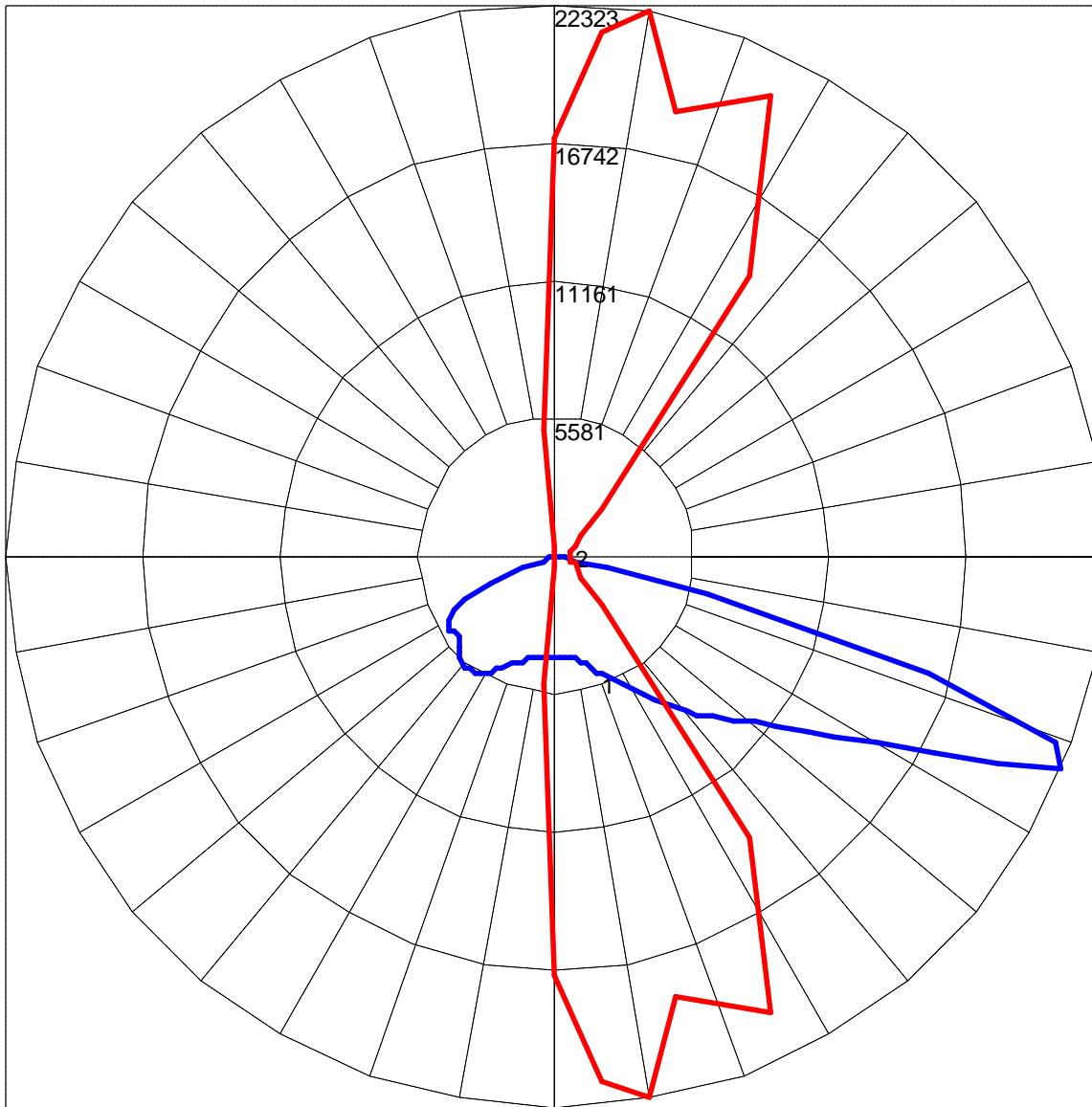
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

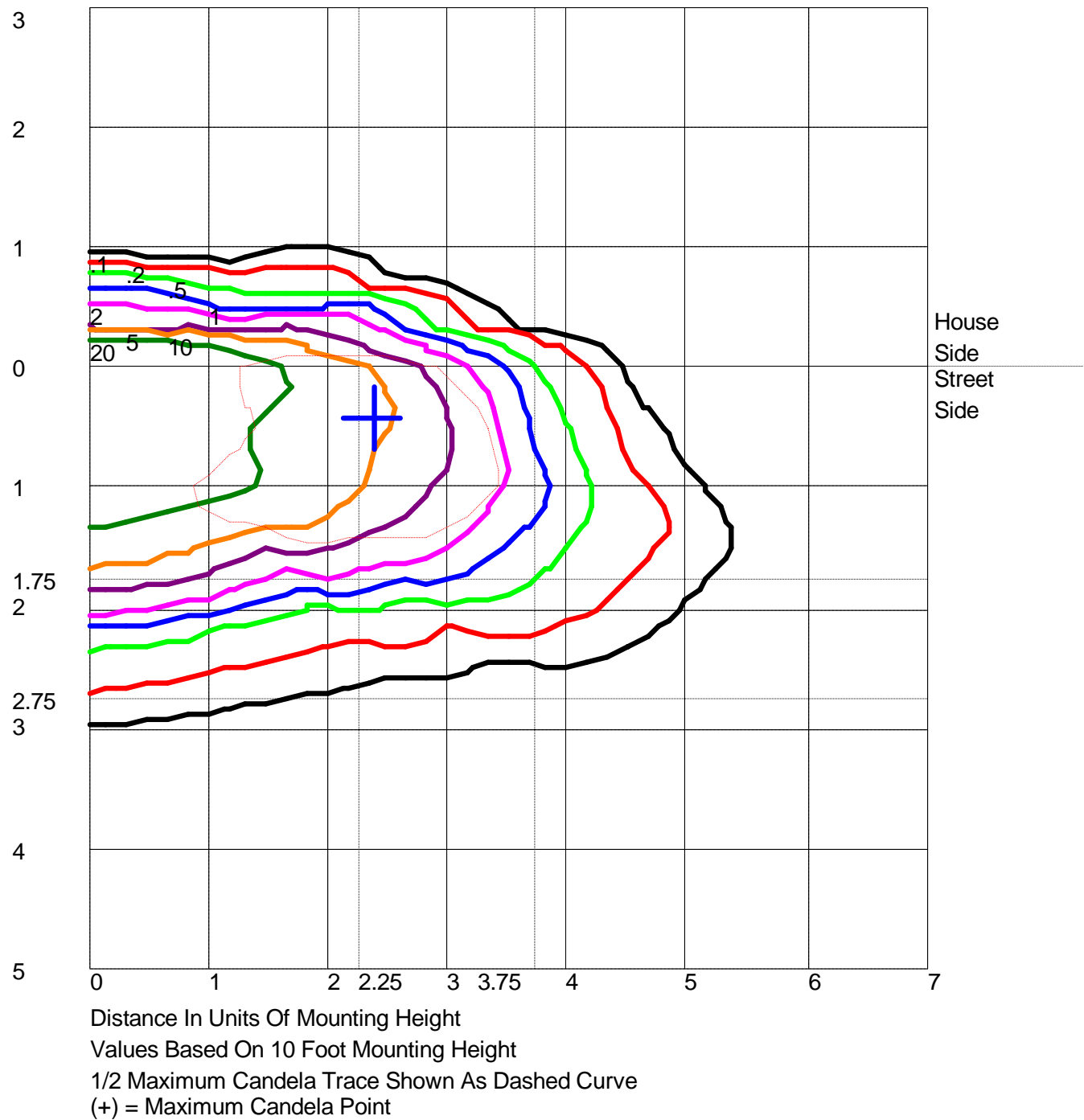
	Lumens	Percent Of Luminaire
Downward Street Side	18332.7	84.8
Downward House Side	3275.8	15.2
Downward Total	21608.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21608.5	100.0

POLAR GRAPH



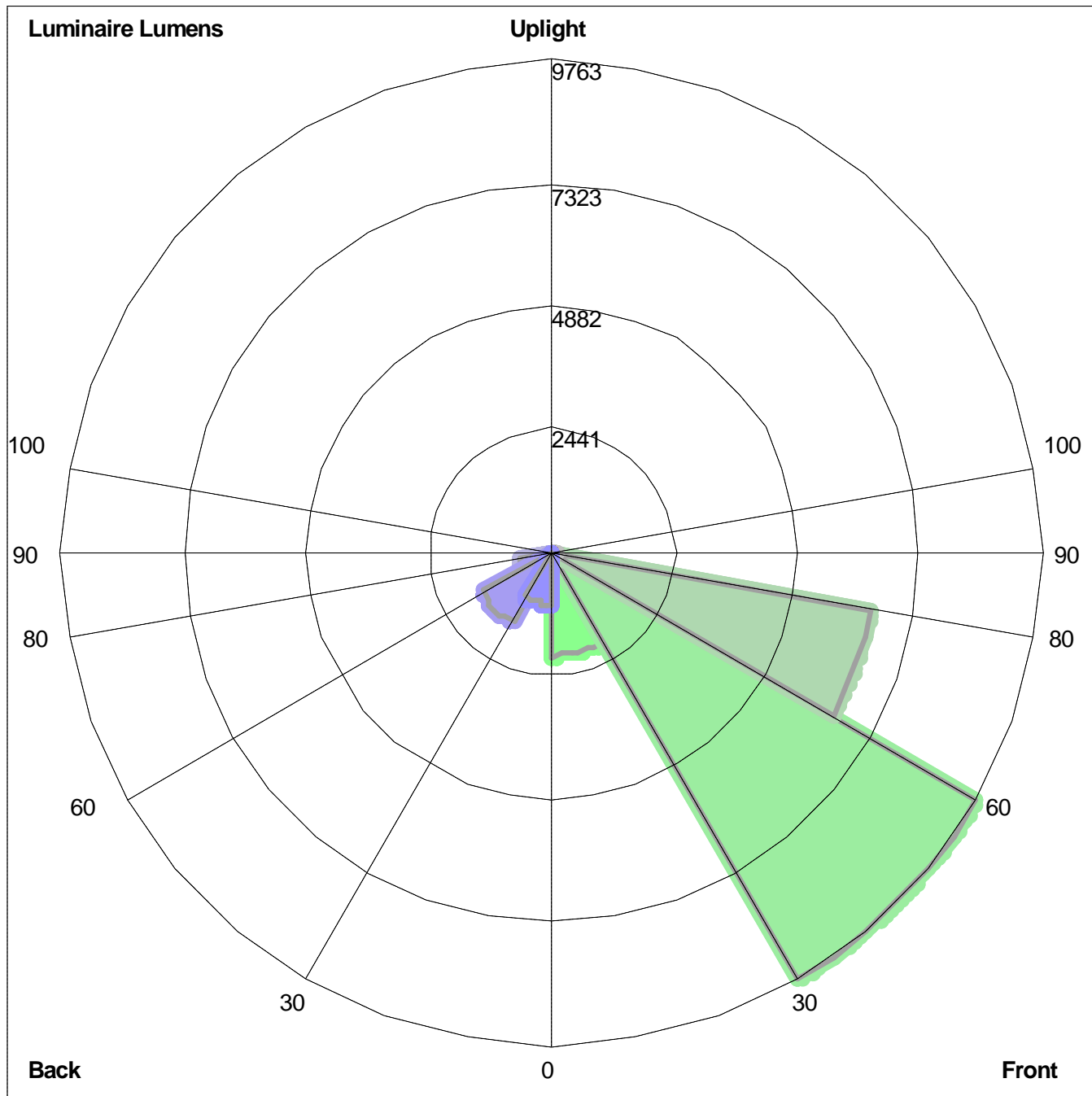
Maximum Candela = 22322.854 Located At Horizontal Angle = 80, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2051.1, Medium=9763.5, High=6424.8, Very High=93.3  
Back: Low= 1033.0, Medium= 1592.0, High=645.5, Very High=5.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3