



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-2-LED-32L-40-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-40-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	23570
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	314
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24349.735
Maximum Candela Angle	80H 67.5V
Maximum Candela (<90 Degrees Vertical)	24349.735
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	1927.449 (8.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2237.3	N.A.	9.5
FM - Front-Medium (30-60)	10650.0	N.A.	45.2
FH - Front-High (60-80)	7008.1	N.A.	29.7
FVH - Front-Very High (80-90)	101.8	N.A.	0.4
BL - Back-Low (0-30)	1126.8	N.A.	4.8
BM - Back-Medium (30-60)	1736.5	N.A.	7.4
BH - Back-High (60-80)	704.1	N.A.	3.0
BVH - Back-Very High (80-90)	5.8	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	23570.4	N.A.	100.0
BUG Rating	B3-U0-G3		

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**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	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756
2.5	4443.219	4437.616	4438.736	4442.098	4446.580	4440.977	4442.098	4430.892	4421.927	4414.083
5.0	4518.300	4513.817	4517.179	4521.661	4529.506	4523.903	4520.541	4499.249	4483.561	4470.113
7.5	4598.983	4594.501	4601.225	4614.672	4620.275	4611.310	4604.586	4577.692	4556.400	4535.109
10.0	4693.115	4690.873	4699.838	4717.768	4726.733	4712.165	4700.959	4672.944	4647.170	4623.637
12.5	4808.538	4805.176	4820.864	4841.035	4850.000	4836.553	4843.276	4815.261	4792.849	4761.472
15.0	4895.945	4894.824	4926.202	4971.026	5000.162	5009.127	5033.780	5006.885	4978.870	4939.649
17.5	4935.166	4939.649	4979.991	5051.710	5134.635	5215.319	5264.626	5250.058	5204.113	5160.409
20.0	4976.629	4982.232	5025.936	5122.308	5246.696	5400.220	5523.487	5516.763	5459.612	5405.823
22.5	5025.936	5029.298	5078.605	5220.922	5366.601	5539.175	5777.865	5829.413	5736.403	5677.010
25.0	5034.901	5034.901	5115.585	5291.520	5484.265	5668.045	5980.696	6165.596	6065.862	6000.867
27.5	5044.986	5053.951	5150.324	5352.033	5585.120	5790.192	6138.702	6528.674	6435.663	6369.547
30.0	5135.756	5146.962	5244.455	5447.285	5701.664	5931.389	6305.672	6885.028	6885.028	6798.741
32.5	5324.018	5331.862	5423.752	5605.291	5855.187	6115.169	6504.020	7196.557	7352.322	7255.950
35.0	5618.739	5617.618	5694.940	5847.343	6062.500	6357.221	6746.072	7471.107	7845.391	7750.139
37.5	6015.434	6007.590	6055.776	6185.767	6362.824	6663.147	7041.913	7732.209	8372.077	8290.273
40.0	6481.608	6467.040	6499.538	6589.187	6738.228	7048.637	7388.182	8029.171	8870.749	8884.196
42.5	7053.119	7025.104	7027.345	7086.738	7196.557	7542.826	7810.652	8344.062	9332.440	9434.416
45.0	7817.375	7825.220	7746.777	7746.777	7743.415	8141.232	8303.720	8644.386	9731.377	10008.168
47.5	8909.970	8918.935	8929.020	8790.065	8608.526	8912.211	8976.086	9030.996	10172.898	10705.187
50.0	9873.695	9903.951	9918.519	9971.188	10009.289	10158.330	9900.589	9594.663	10711.911	11482.891
52.5	9994.721	10012.650	10132.556	10511.322	11212.824	12081.296	11332.729	10360.039	11380.915	12406.273
55.0	9515.099	9564.406	9798.614	10336.507	11557.972	13539.210	13904.529	11513.147	12146.292	13523.521
57.5	8614.129	8688.089	9037.720	9638.367	11170.240	13814.880	16356.424	13229.922	13124.584	14732.660
60.0	7029.587	7129.321	7526.017	8182.694	9888.263	12986.749	18138.193	15966.451	14431.216	16423.660
62.5	3982.648	4099.191	4563.124	5599.688	7296.292	10614.418	19125.451	19766.440	15772.586	18836.333
65.0	1364.903	1413.089	1537.477	2199.757	3896.361	6711.333	18840.816	22032.313	17692.191	21654.668
67.5	729.517	726.155	734.000	876.317	1500.497	3064.868	15128.235	22316.948	20173.221	24349.735
70.0	467.294	457.209	470.656	545.737	759.774	1239.395	7317.583	19635.328	21077.553	23712.108
72.5	235.328	242.052	255.499	329.459	496.430	744.085	2604.298	13363.274	19331.643	17271.962
75.0	122.146	124.388	124.388	173.695	309.288	532.290	1214.741	6023.279	10374.607	6898.475
77.5	67.237	69.478	71.719	94.131	159.127	336.183	662.281	2816.093	4096.950	2270.356
80.0	59.392	60.513	58.272	66.116	85.166	159.127	340.665	995.102	1927.449	993.981
82.5	59.392	58.272	54.910	58.272	72.840	103.096	164.730	447.123	858.387	539.013
85.0	52.669	51.548	49.307	50.427	60.513	94.131	153.524	281.273	480.742	346.268
87.5	26.895	24.653	25.774	31.377	42.583	78.443	158.006	332.821	358.595	226.363
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	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756	4401.756
2.5	4407.359	4392.791	4409.600	4411.842	4415.203	4406.239	4392.791	4393.912	4389.429	4387.188
5.0	4461.148	4440.977	4453.304	4444.339	4434.254	4403.997	4367.017	4339.002	4306.504	4280.730
7.5	4514.938	4490.284	4497.008	4472.355	4433.133	4361.414	4276.248	4194.443	4109.277	4030.834
10.0	4597.863	4563.124	4562.003	4512.696	4421.927	4276.248	4102.553	3951.271	3787.662	3617.329
12.5	4733.457	4690.873	4686.391	4594.501	4430.892	4163.066	3826.883	3462.685	3078.316	2734.288
15.0	4899.307	4844.397	4827.588	4686.391	4427.530	3988.251	3292.352	2616.624	2043.993	1639.452
17.5	5105.499	5030.418	5000.162	4787.246	4396.153	3587.073	2481.031	1636.091	1094.836	865.111
20.0	5334.104	5254.540	5196.269	4895.945	4297.539	2940.481	1664.106	952.518	623.059	534.531
22.5	5591.844	5508.919	5417.029	5012.489	4038.678	2198.637	1045.529	584.958	489.707	454.968
25.0	5906.735	5812.604	5693.819	5152.565	3605.002	1554.286	656.677	496.430	443.762	410.143
27.5	6269.813	6161.114	6017.676	5288.159	3059.265	1029.841	534.531	454.968	402.299	366.439

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**CANDELA TABULATION - (Cont.)**

30.0	6721.419	6583.584	6409.889	5362.119	2456.377	682.451	489.707	413.505	361.957	321.615
32.5	7186.472	7045.275	6837.962	5359.878	1762.720	564.787	444.882	372.043	316.012	265.585
35.0	7677.299	7521.534	7267.156	5228.766	1173.279	513.239	398.937	326.098	254.378	193.866
37.5	8217.433	8050.462	7735.571	4932.925	778.824	461.691	351.872	264.464	174.815	121.026
40.0	8796.788	8623.094	8239.845	4433.133	606.250	409.023	299.203	189.383	104.217	70.598
42.5	9418.727	9203.570	8719.466	3687.928	537.893	359.716	234.207	116.543	58.272	38.101
45.0	10039.545	9807.579	9206.932	2809.369	482.983	308.168	159.127	63.875	26.895	15.689
47.5	10757.856	10528.131	9660.779	1914.002	430.314	252.137	99.734	31.377	10.085	4.482
50.0	11637.535	11405.569	10101.179	1213.621	376.525	188.262	58.272	14.568	3.362	1.121
52.5	12624.792	12330.072	10408.226	837.096	324.977	128.870	28.015	6.724	2.241	1.121
55.0	13860.825	13438.355	10592.006	730.638	281.273	82.925	16.809	4.482	3.362	2.241
57.5	15280.638	14714.730	10634.589	756.412	259.982	50.427	10.085	4.482	4.482	4.482
60.0	16948.106	16029.205	10319.697	788.909	254.378	26.895	7.844	4.482	5.603	5.603
62.5	19643.173	17620.472	9573.371	763.135	246.534	17.930	6.724	4.482	5.603	4.482
65.0	21703.974	18835.213	8013.482	648.833	209.554	25.774	5.603	4.482	3.362	2.241
67.5	23232.486	18462.050	5607.532	435.917	144.559	17.930	5.603	2.241	3.362	6.724
70.0	20805.245	14692.318	2770.148	203.951	75.081	14.568	3.362	3.362	4.482	2.241
72.5	13087.604	7866.682	1026.479	89.649	38.101	12.327	2.241	2.241	1.121	0.000
75.0	4962.061	3063.748	460.571	38.101	15.689	6.724	2.241	0.000	0.000	0.000
77.5	1381.712	926.744	263.343	16.809	8.965	3.362	1.121	0.000	0.000	0.000
80.0	645.471	466.174	163.609	11.206	5.603	2.241	0.000	0.000	0.000	0.000
82.5	328.339	245.414	84.046	10.085	5.603	0.000	0.000	0.000	0.000	0.000
85.0	201.710	140.076	33.618	7.844	2.241	1.121	1.121	1.121	1.121	0.000
87.5	116.543	58.272	11.206	3.362	3.362	2.241	2.241	2.241	1.121	1.121
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**

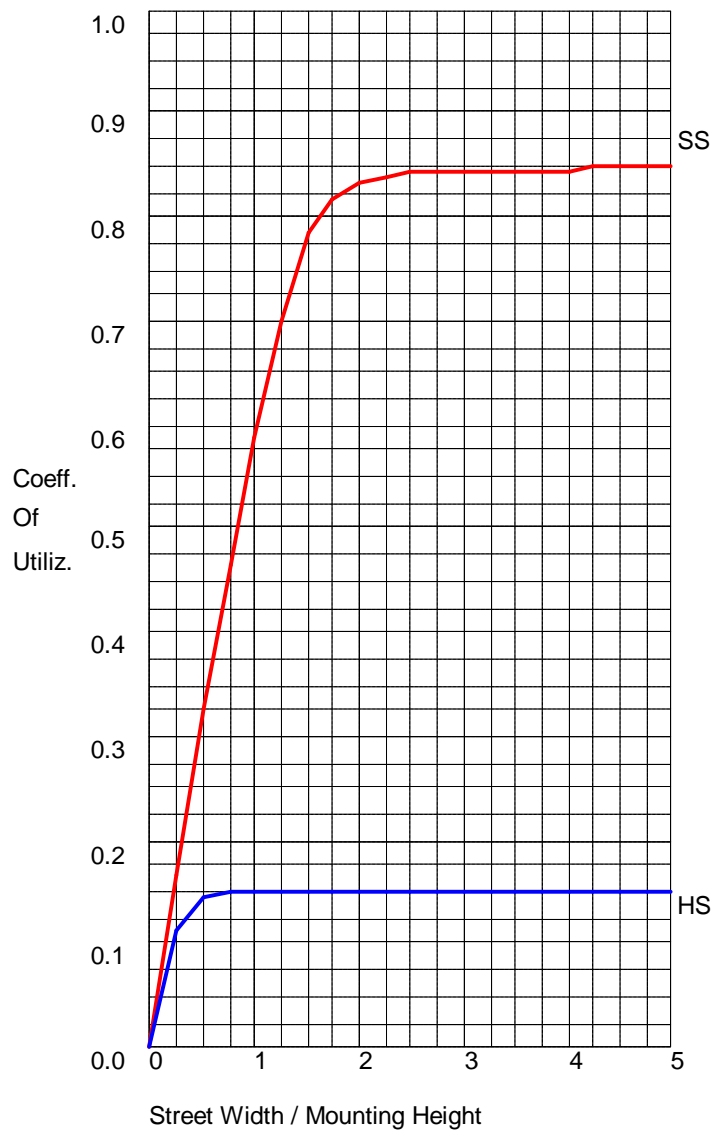
	<u>175</u>	<u>180</u>
0.0	4401.756	4401.756
2.5	4380.464	4369.258
5.0	4254.956	4242.629
7.5	3990.492	3975.924
10.0	3522.077	3499.665
12.5	2558.353	2529.217
15.0	1465.758	1441.104
17.5	753.050	740.723
20.0	505.395	499.792
22.5	440.400	439.279
25.0	394.455	392.213
27.5	349.630	346.268
30.0	299.203	298.082
32.5	238.690	236.449
35.0	165.850	159.127
37.5	100.855	95.252
40.0	57.151	56.030
42.5	30.256	30.256
45.0	11.206	10.085
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	2.241	1.121
60.0	3.362	2.241
62.5	1.121	0.000
65.0	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	3.362	3.362
<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

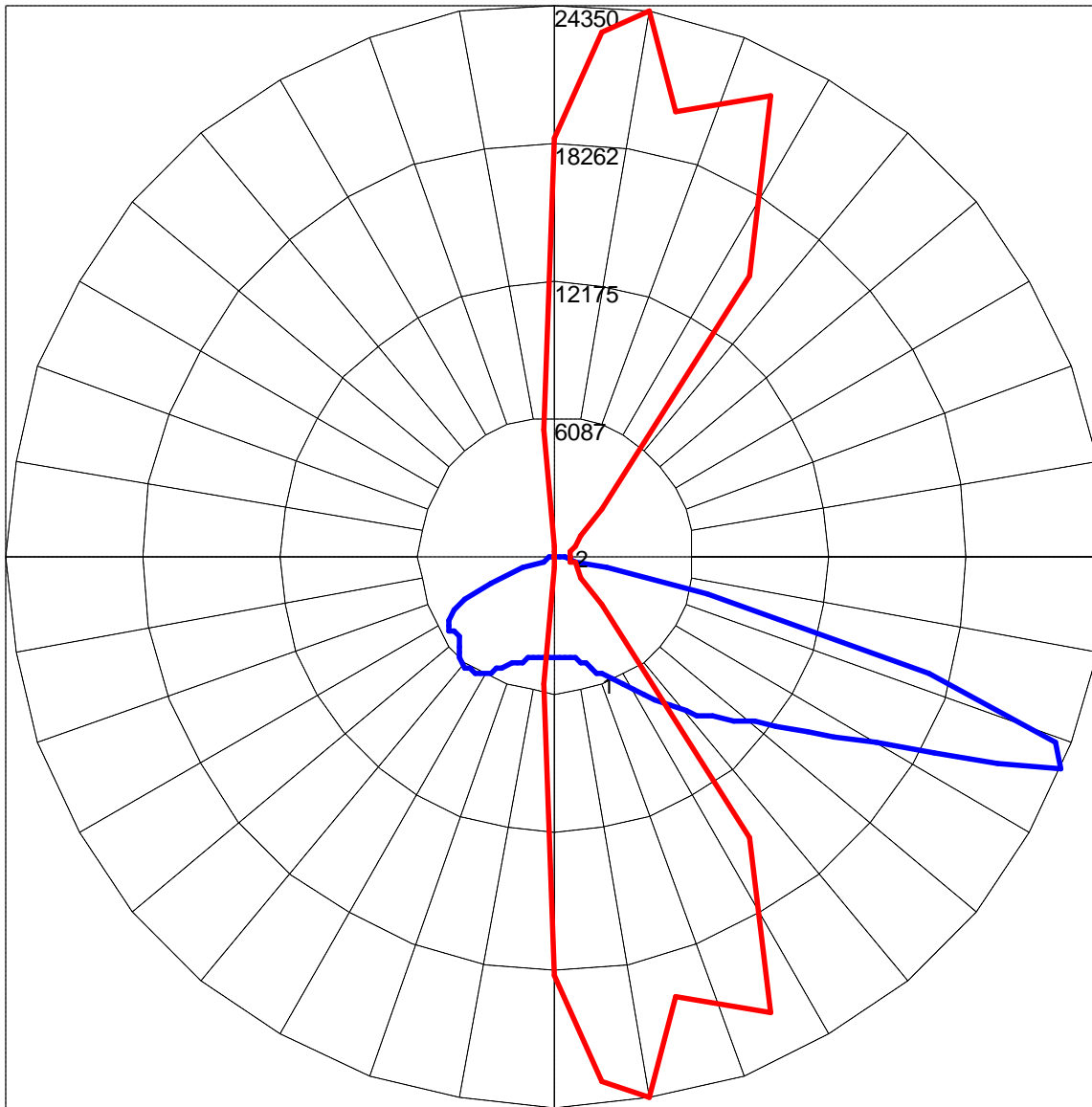
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

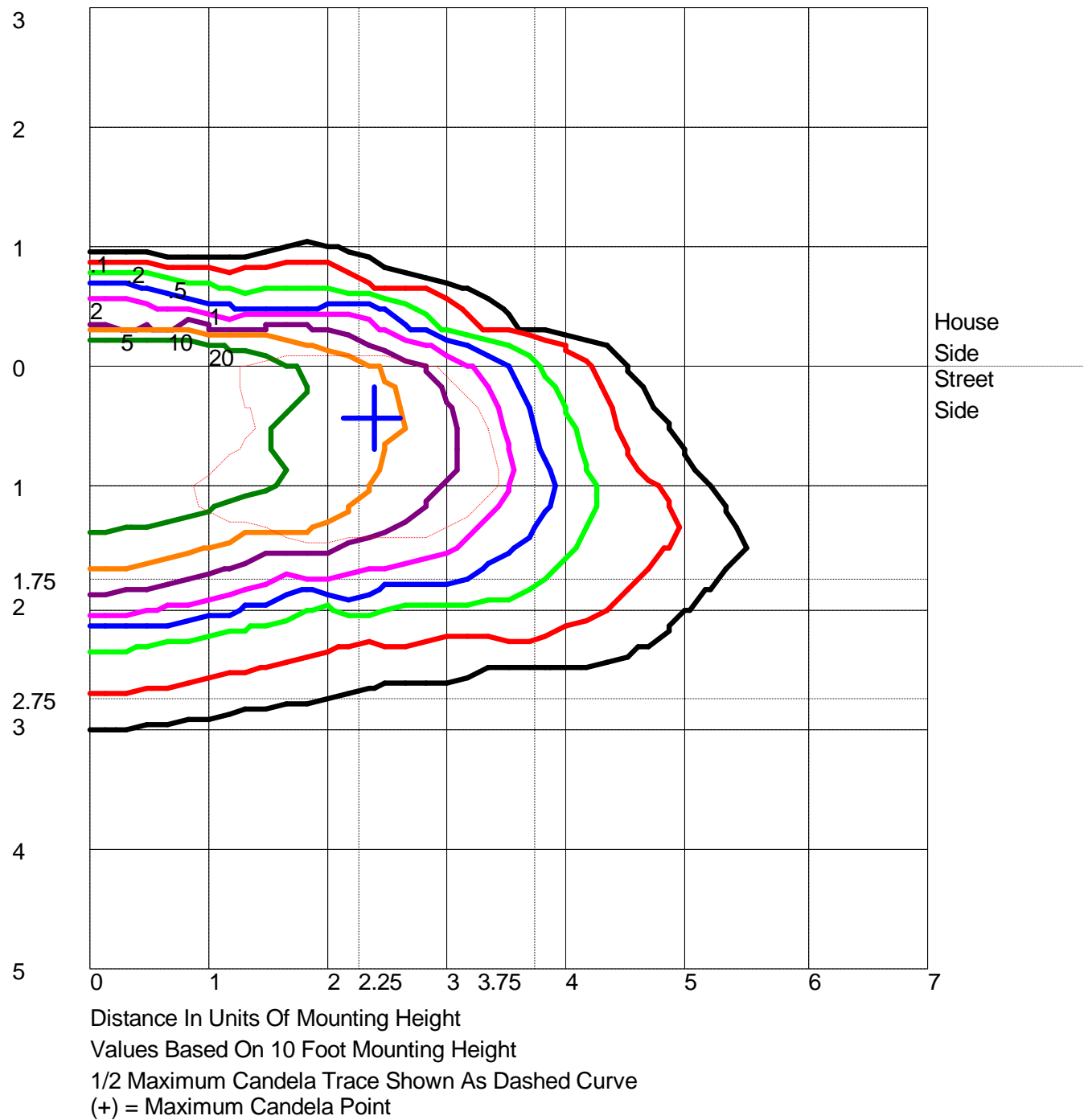
	Lumens	Percent Of Luminaire
Downward Street Side	19997.2	84.8
Downward House Side	3573.2	15.2
Downward Total	23570.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23570.4	100.0

POLAR GRAPH



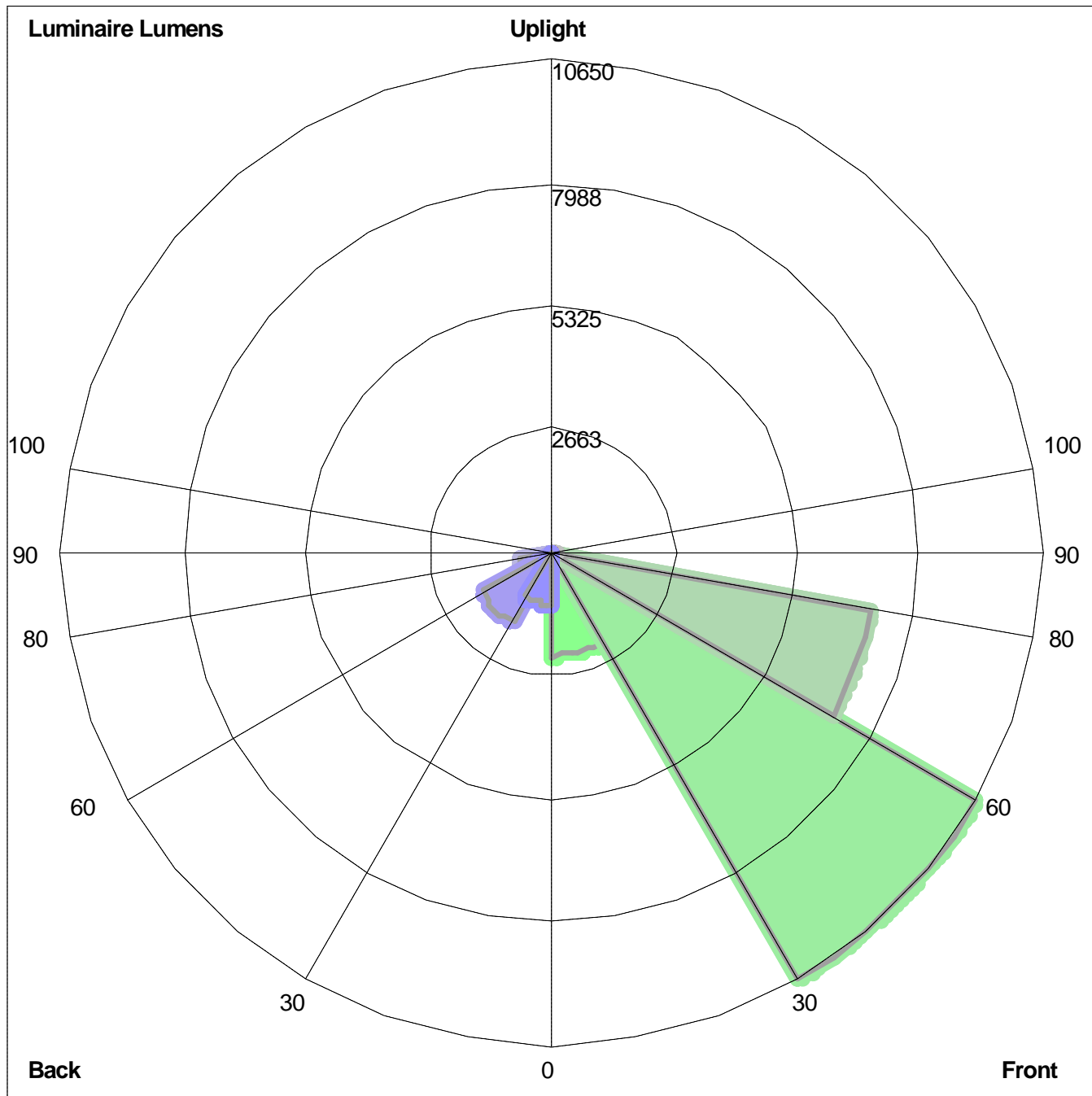
Maximum Candela = 24349.735 Located At Horizontal Angle = 80, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2237.3, Medium= 10650.0, High=7008.1, Very High=101.8  
Back: Low=1126.8, Medium=1736.5, High=704.1, Very High=5.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3