



IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-4L-LED-23L-45-IC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB] EVERFINE
[TESTDATE] 2016-09-09
[ISSUEDATE] 11/15/2019
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] TEL22-4L-LED-23L-45-IC
[_SEARCH_ SOURCETYPE] LED
[_SEARCH_ APPLICATION] Outdoor
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22776
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	285.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12424
Maximum Candela Angle	50H 70V
Maximum Candela (<90 Degrees Vertical)	12424
Maximum Candela Angle (<90 Degrees Vertical)	50H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3188 (14.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-4L-LED-23L-45-IC.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1842.6	N.A.	8.1
FM - Front-Medium (30-60)	5652.7	N.A.	24.8
FH - Front-High (60-80)	4329.7	N.A.	19.0
FVH - Front-Very High (80-90)	118.8	N.A.	0.5
BL - Back-Low (0-30)	1789.4	N.A.	7.9
BM - Back-Medium (30-60)	5243.2	N.A.	23.0
BH - Back-High (60-80)	3729.8	N.A.	16.4
BVH - Back-Very High (80-90)	69.5	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	22775.7	N.A.	100.0
BUG Rating	B4-U0-G4		

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-4L-LED-23L-45-IC.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	4525	4525	4525	4525	4525	4525	4525	4525	4525	4525
5	4513	4567	4620	4676	4728	4778	4821	4851	4862	4857
10	4577	4674	4763	4851	4936	5035	5128	5204	5261	5269
15	4712	4860	5011	5148	5234	5287	5368	5465	5545	5574
20	4870	5094	5323	5498	5587	5634	5664	5731	5777	5804
25	5027	5344	5661	5849	5947	5963	5942	5954	5966	5993
30	5150	5573	5919	6114	6228	6288	6284	6236	6226	6236
35	5265	5792	6077	6309	6536	6700	6713	6642	6623	6592
40	5394	6021	6304	6584	6833	7104	7246	7169	7107	7073
45	5547	6260	6643	6948	7212	7409	7550	7543	7569	7606
50	5712	6777	7255	7514	7448	7502	7670	7837	8045	8265
55	5852	7192	7828	8205	7880	7684	8111	8635	8995	9155
60	5728	7397	8357	8530	8324	8498	9381	10373	10973	11103
65	5022	6962	8968	9424	9222	10578	11961	11344	11005	10654
70	3552	5673	9191	10788	12349	12424	11007	8132	4762	4416
75	1512	3331	6932	10439	12372	8367	4214	2039	1346	1143
80	280	759	2040	3188	1596	1111	793	503	317	274
85	48	77	94	84	51	35	24	19	17	16
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	4525	4525	4525	4525	4525	4525	4525	4525	4525	4525
5	4857	4839	4805	4759	4708	4651	4600	4548	4498	4451
10	5241	5172	5079	4977	4885	4803	4716	4620	4523	4428
15	5515	5413	5286	5202	5136	5043	4914	4762	4611	4459
20	5749	5660	5559	5500	5422	5311	5154	4942	4715	4467
25	5931	5874	5815	5765	5710	5577	5407	5131	4800	4376
30	6177	6138	6093	5992	5901	5526	5363	5066	4697	3965
35	6561	6503	6429	6318	5845	5671	5531	5254	4797	3598
40	7046	6997	6869	6366	6172	5988	5791	5520	4953	3112
45	7476	7295	6845	6678	6559	6449	6273	5941	5208	2608
50	7990	7677	7017	6887	6887	7076	6613	6176	5202	2163
55	8936	8320	7464	7095	7203	7480	7321	6666	5371	1802

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-4L-LED-23L-45-IC.IES

CANDELA TABULATION - (Cont.)

60	10995	9770	8791	7564	7664	8338	7944	6778	5013	1460
65	10984	10852	11245	9571	9266	8662	7747	5918	4071	1169
70	4927	7978	9858	11237	11483	8916	6934	4379	1872	821
75	1235	1683	3686	6840	10345	7054	4471	1983	568	387
80	298	419	594	653	1464	1538	922	279	104	95
85	15	15	15	18	20	22	23	19	16	12
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	4525	4525	4525	4525	4525	4525	4525	4525	4525	4525
5	4406	4365	4323	4272	4208	4144	4092	4049	4081	4133
10	4333	4162	3895	3572	3272	3055	2924	2870	2927	3060
15	4183	3646	3021	2650	2509	2489	2504	2535	2539	2543
20	3798	2879	2476	2459	2466	2476	2497	2532	2539	2548
25	3175	2416	2386	2407	2437	2463	2489	2540	2537	2550
30	2541	2285	2317	2363	2417	2452	2477	2516	2531	2555
35	2198	2185	2243	2305	2359	2409	2434	2466	2491	2525
40	2034	2070	2136	2209	2288	2334	2347	2373	2407	2463
45	1907	1943	2001	2099	2179	2203	2204	2220	2264	2343
50	1749	1799	1892	1954	2011	2052	2062	2083	2135	2206
55	1559	1640	1734	1792	1840	1944	1977	1984	2084	2132
60	1344	1449	1517	1576	1648	1791	1763	1705	1873	1992
65	1066	1213	1247	1272	1354	1499	1355	1327	1447	1725
70	773	897	896	925	980	1130	1010	1002	1088	1331
75	443	513	537	575	631	693	648	644	710	840
80	151	202	228	250	268	280	282	280	313	348
85	18	26	32	37	40	43	46	46	50	54
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-4L-LED-23L-45-IC.IES

CANDELA TABULATION - (Cont.)

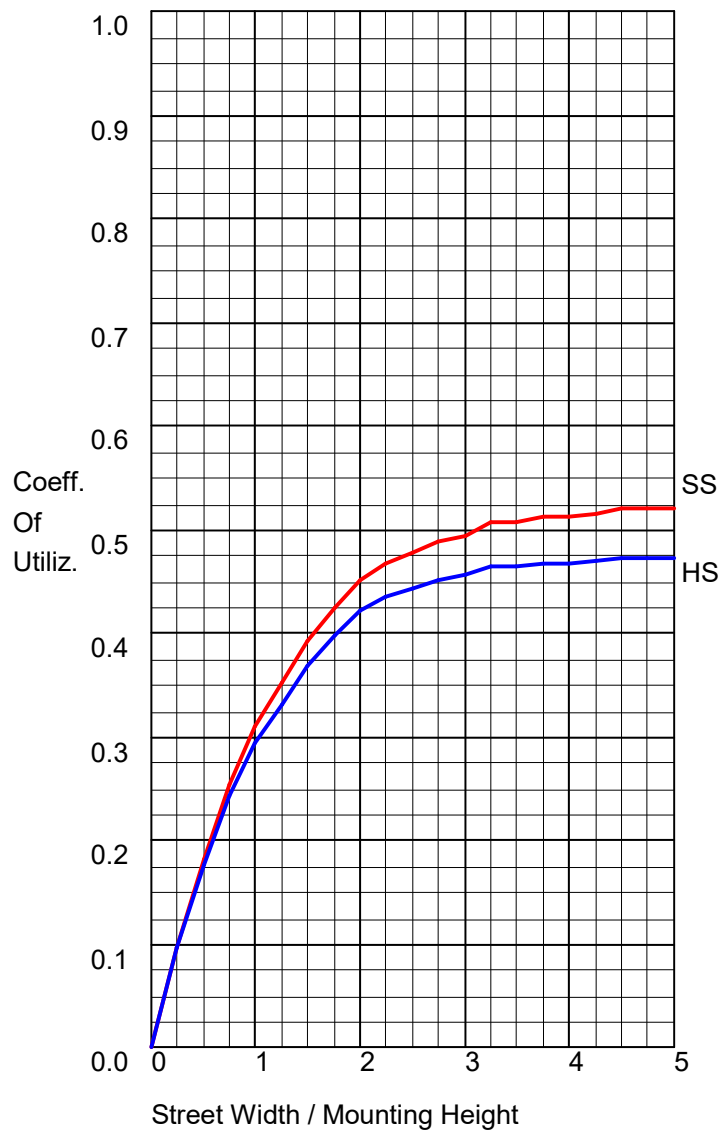
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	4525	4525	4525	4525	4525	4525	4525
5	4198	4264	4324	4371	4417	4462	4513
10	3278	3581	3905	4175	4366	4475	4577
15	2573	2723	3098	3712	4252	4548	4712
20	2568	2587	2621	3036	3943	4590	4870
25	2569	2580	2591	2626	3397	4550	5027
30	2577	2566	2564	2562	2877	4389	5150
35	2541	2538	2527	2508	2539	4058	5265
40	2484	2468	2460	2430	2417	3583	5394
45	2388	2383	2347	2313	2304	3095	5547
50	2240	2252	2228	2184	2178	2652	5712
55	2080	2092	2088	2052	2021	2241	5852
60	1875	1890	1888	1857	1800	1902	5728
65	1577	1581	1600	1610	1508	1632	5022
70	1198	1197	1219	1243	1175	1232	3552
75	793	791	786	805	748	713	1512
80	371	375	378	383	373	267	280
85	59	68	82	88	88	60	48
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

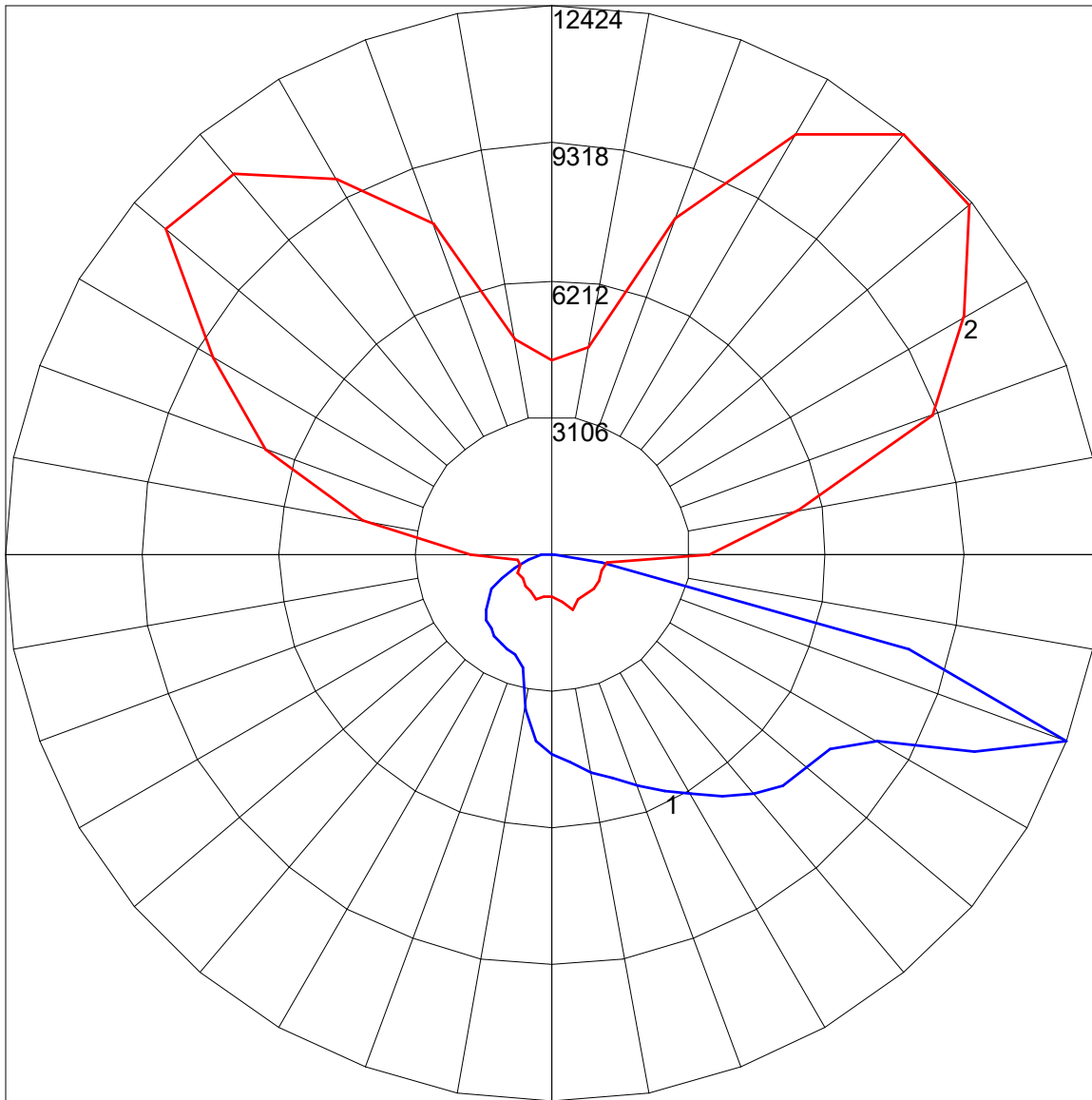
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

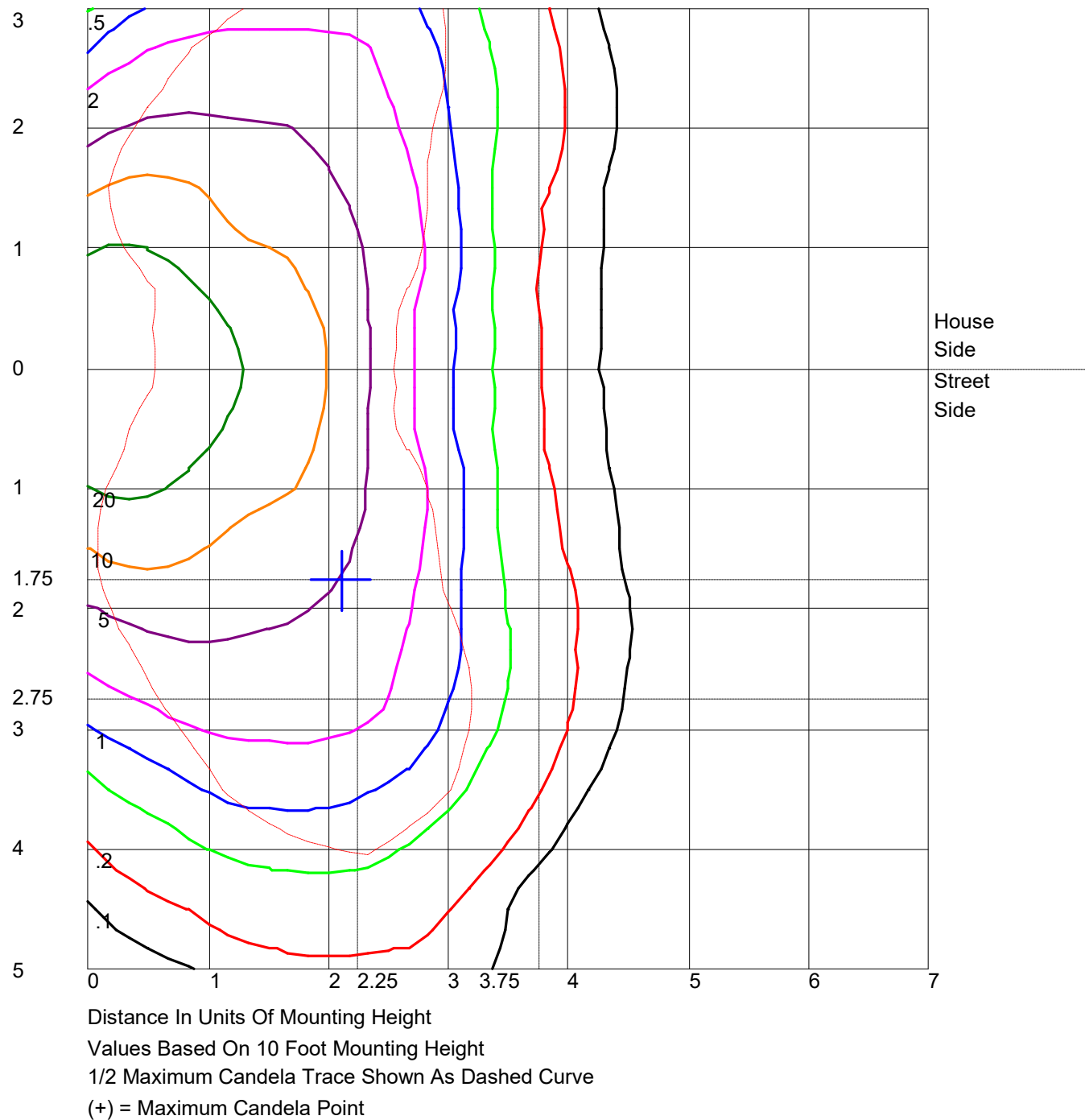
	Lumens	Percent Of Luminaire
Downward Street Side	11943.8	52.4
Downward House Side	10831.8	47.6
Downward Total	22775.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	22775.6	100.0

POLAR GRAPH

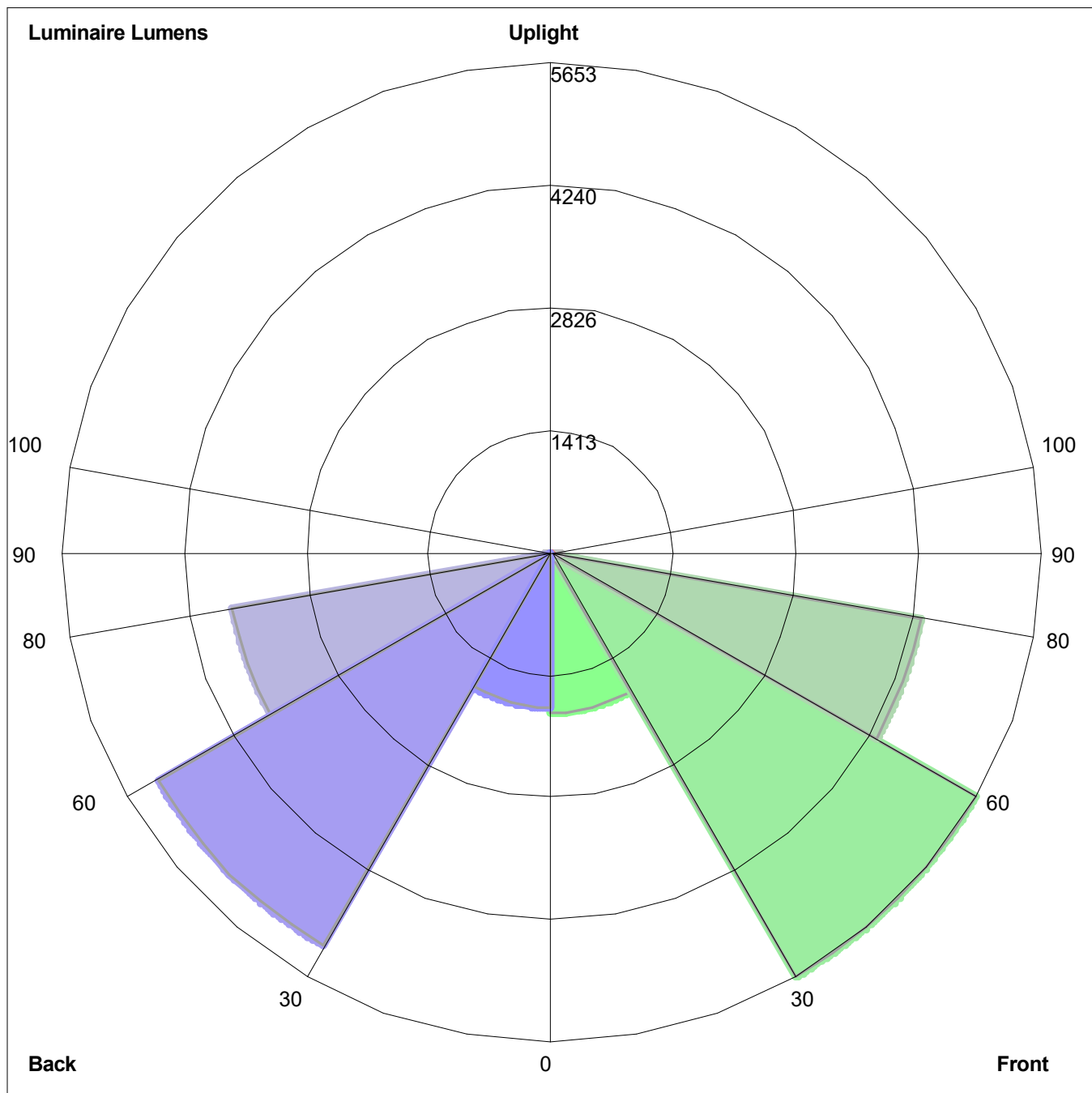


Maximum Candela = 12424 Located At Horizontal Angle = 50, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1842.6, Medium=5652.7, High=4329.7, Very High=118.8
Back: Low=1789.4, Medium=5243.2, High=3729.8, Very High=69.5
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4