



IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-4-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] TEL22-4-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	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25517
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	282.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19640
Maximum Candela Angle	300H 65V
Maximum Candela (<90 Degrees Vertical)	19640
Maximum Candela Angle (<90 Degrees Vertical)	300H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1477 (5.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : TEL22-4-LED-23L-45-IC.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2316.2	N.A.	9.1
FM - Front-Medium (30-60)	11234.4	N.A.	44.0
FH - Front-High (60-80)	7965.4	N.A.	31.2
FVH - Front-Very High (80-90)	80.2	N.A.	0.3
BL - Back-Low (0-30)	1017.6	N.A.	4.0
BM - Back-Medium (30-60)	2034.9	N.A.	8.0
BH - Back-High (60-80)	841.7	N.A.	3.3
BVH - Back-Very High (80-90)	26.7	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25517.1	N.A.	100.0
BUG Rating	B3-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060
5	4743	4714	4659	4578	4484	4384	4281	4168	4041	4080
10	5342	5266	5117	4935	4769	4634	4505	4351	4158	4073
15	5986	5810	5534	5273	5113	4946	4775	4579	4321	4137
20	6277	6124	5899	5684	5501	5290	5053	4805	4501	4216
25	6670	6514	6293	6087	5879	5656	5399	5094	4742	4325
30	7497	7287	6992	6693	6406	6090	5785	5453	5008	4452
35	8541	8251	7916	7554	7127	6697	6285	5868	5361	4594
40	9617	9238	8756	8391	7959	7529	7009	6372	5696	4652
45	11437	10780	10084	9446	8922	8336	7493	6697	5935	4635
50	13824	13216	12469	11276	10286	9392	8357	7358	6448	4606
55	14610	14629	14418	13877	12573	10885	9882	8870	7559	4719
60	13110	13715	14355	15060	15423	13818	12594	11909	9813	5259
65	3566	4818	9427	13716	15997	17571	17083	13562	10141	4631
70	1200	1368	2050	4369	12301	16471	17565	13209	8191	2553
75	623	699	903	1302	1628	6895	10711	6548	4324	1078
80	152	213	342	357	326	426	1477	907	520	258
85	22	23	28	32	34	33	34	32	32	31
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									
	100	110	120	130	140	150	160	170	180	190
0	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060
5	3923	3739	3541	3336	3158	3004	2885	2807	2769	2773
10	3720	3253	2769	2426	2258	2203	2195	2197	2199	2197
15	3536	2717	2227	2131	2136	2145	2160	2173	2179	2174
20	3265	2269	2075	2077	2067	2066	2078	2089	2097	2090
25	2924	2030	2000	1990	1989	2002	2015	2024	2028	2027
30	2558	1935	1911	1898	1909	1927	1936	1928	1926	1935
35	2210	1856	1821	1820	1830	1821	1807	1791	1787	1796
40	1889	1744	1726	1721	1717	1710	1695	1682	1681	1687
45	1685	1626	1620	1591	1607	1607	1605	1594	1591	1601
50	1535	1492	1486	1480	1485	1504	1498	1481	1475	1487
55	1405	1335	1338	1347	1343	1382	1386	1358	1349	1365

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CANDELA TABULATION - (Cont.)

60	1420	1173	1193	1161	1182	1225	1214	1150	1132	1163
65	1283	953	985	953	960	998	987	904	879	917
70	722	663	713	699	683	725	719	640	618	653
75	411	411	430	419	404	420	438	360	335	371
80	166	167	166	158	156	151	124	93	83	98
85	26	23	21	19	17	15	12	10	11	10
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	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060
5	2816	2899	3021	3177	3362	3567	3749	4091	4217	4324
10	2187	2176	2209	2341	2637	3097	3589	4166	4403	4571
15	2156	2134	2122	2113	2184	2604	3401	4275	4619	4869
20	2076	2067	2065	2065	2063	2226	3159	4410	4876	5178
25	2020	2009	1993	1982	1983	2017	2859	4574	5194	5547
30	1945	1935	1913	1889	1888	1923	2543	4726	5515	5972
35	1813	1825	1825	1806	1793	1826	2221	4868	5911	6450
40	1699	1704	1702	1707	1698	1701	1893	4931	6316	7048
45	1605	1593	1587	1584	1607	1581	1686	5059	6865	7788
50	1495	1484	1470	1473	1480	1454	1543	5400	8217	9416
55	1380	1351	1336	1336	1347	1303	1408	6265	10687	12068
60	1208	1198	1169	1170	1200	1157	1334	6915	12669	15224
65	982	976	971	983	1026	969	1300	5731	11797	15828
70	732	724	716	734	740	680	676	3620	9283	14455
75	446	439	428	447	456	427	399	1450	3920	5920
80	143	170	171	175	182	182	173	281	519	936
85	14	19	22	24	25	27	29	32	37	38
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

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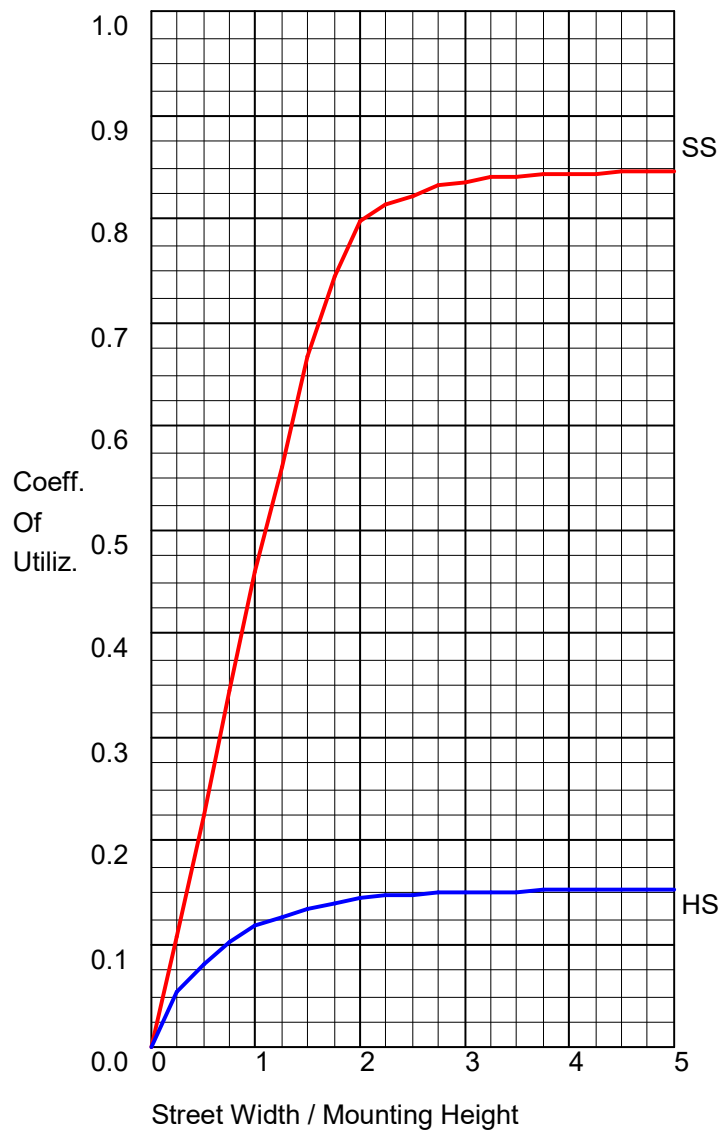
CANDELA TABULATION - (Cont.)

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. Horizontal Angles
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	4060	4060	4060	4060	4060	4060	4060
5	4421	4515	4600	4674	4726	4749	4743
10	4700	4808	4915	5056	5202	5325	5342
15	5052	5200	5313	5434	5666	5892	5986
20	5409	5606	5777	5893	6058	6206	6277
25	5824	6067	6267	6422	6514	6626	6670
30	6299	6604	6899	7145	7342	7474	7497
35	6924	7355	7767	8161	8387	8538	8541
40	7750	8312	8724	9108	9360	9637	9617
45	8767	9515	10035	10478	10889	11296	11437
50	10415	11222	11809	12592	13391	13719	13824
55	12578	13242	14525	15188	15306	14925	14610
60	15991	16603	17284	16120	14765	13704	13110
65	19640	19583	17165	13820	8252	4414	3566
70	17791	16460	10832	3753	1774	1293	1200
75	9760	5350	1478	1266	866	684	623
80	1298	367	357	393	353	209	152
85	40	41	43	41	34	26	22
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

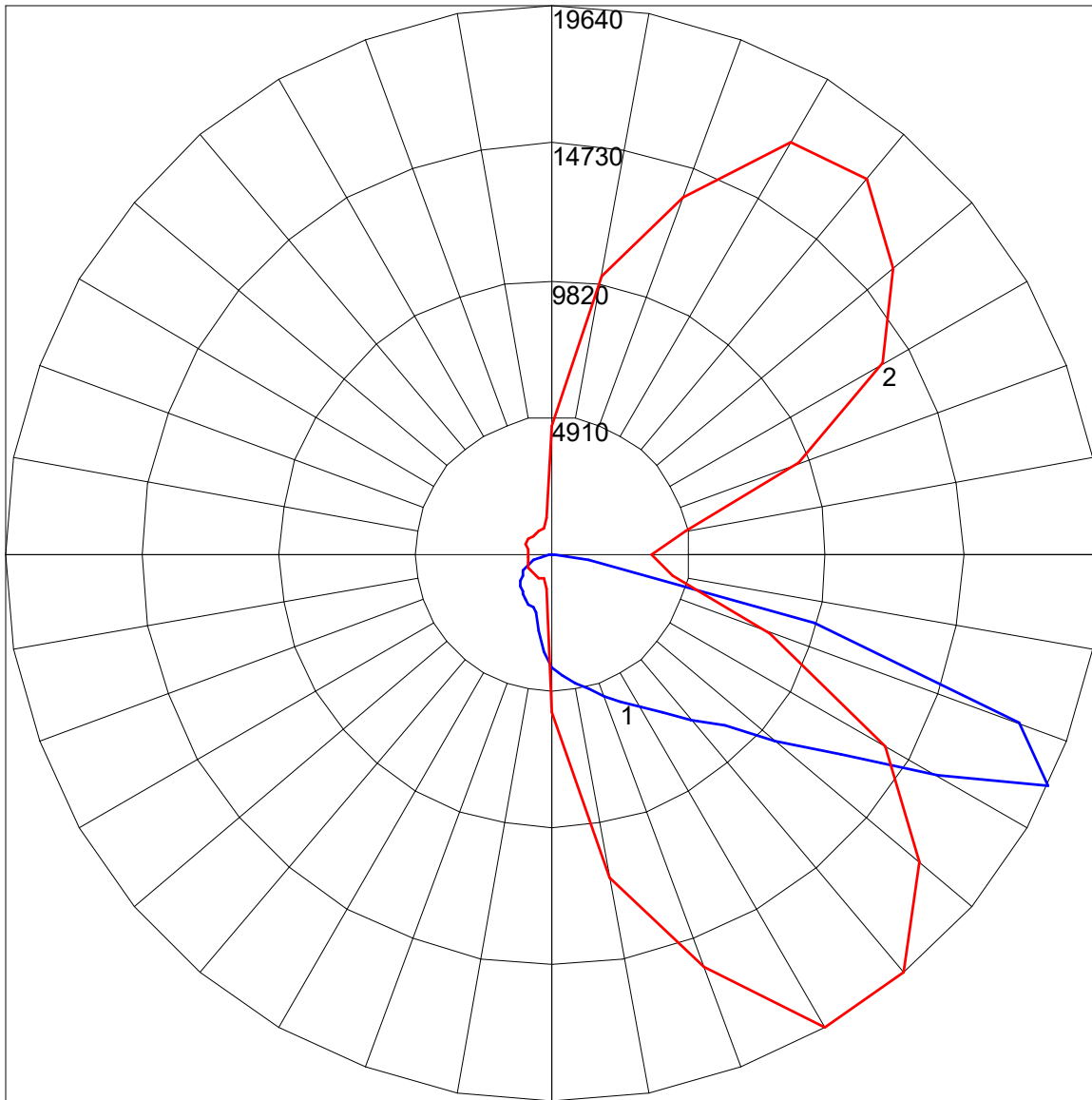
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

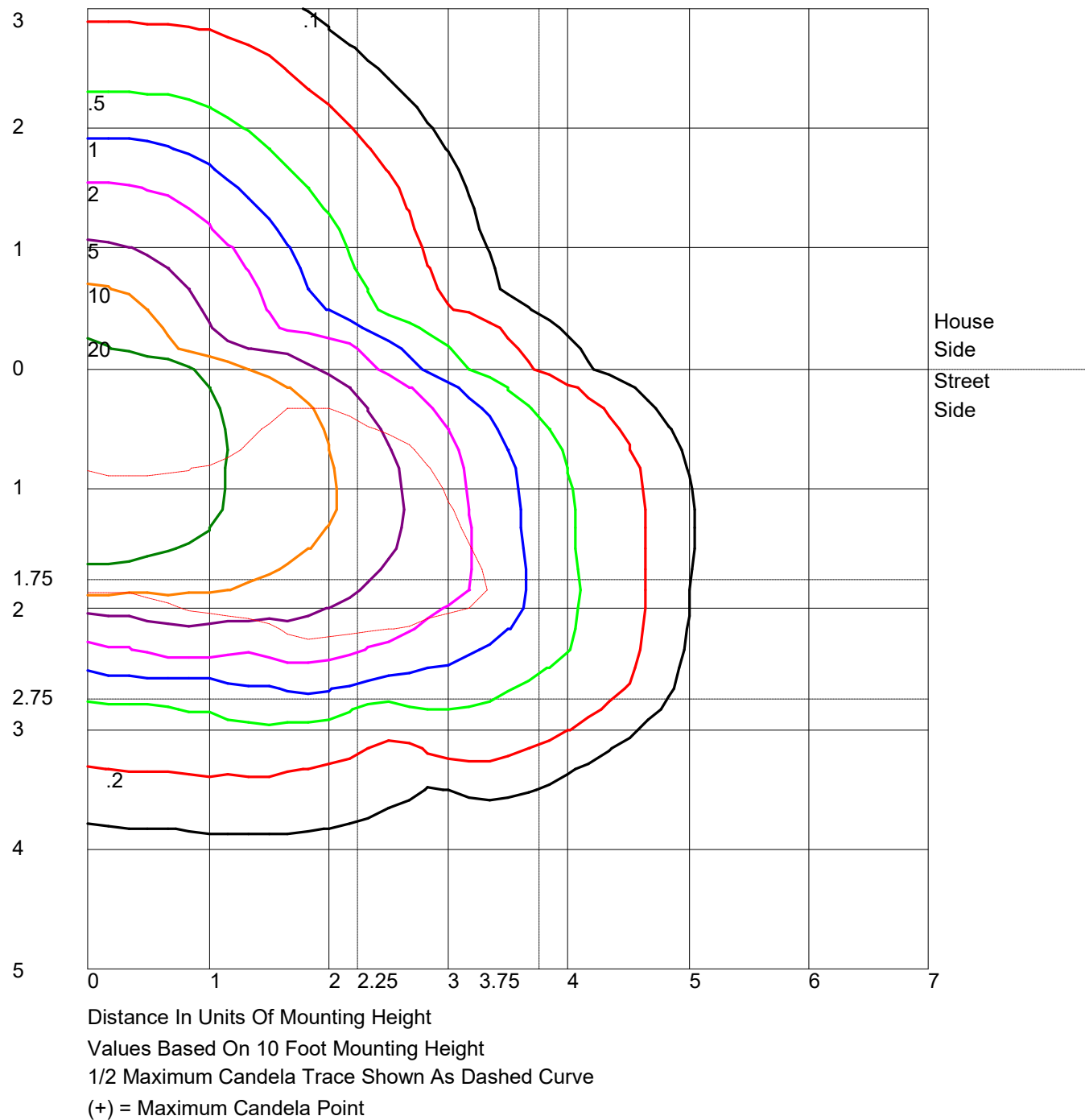
	Lumens	Percent Of Luminaire
Downward Street Side	21596.2	84.6
Downward House Side	3920.9	15.4
Downward Total	25517.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25517.1	100.0

POLAR GRAPH

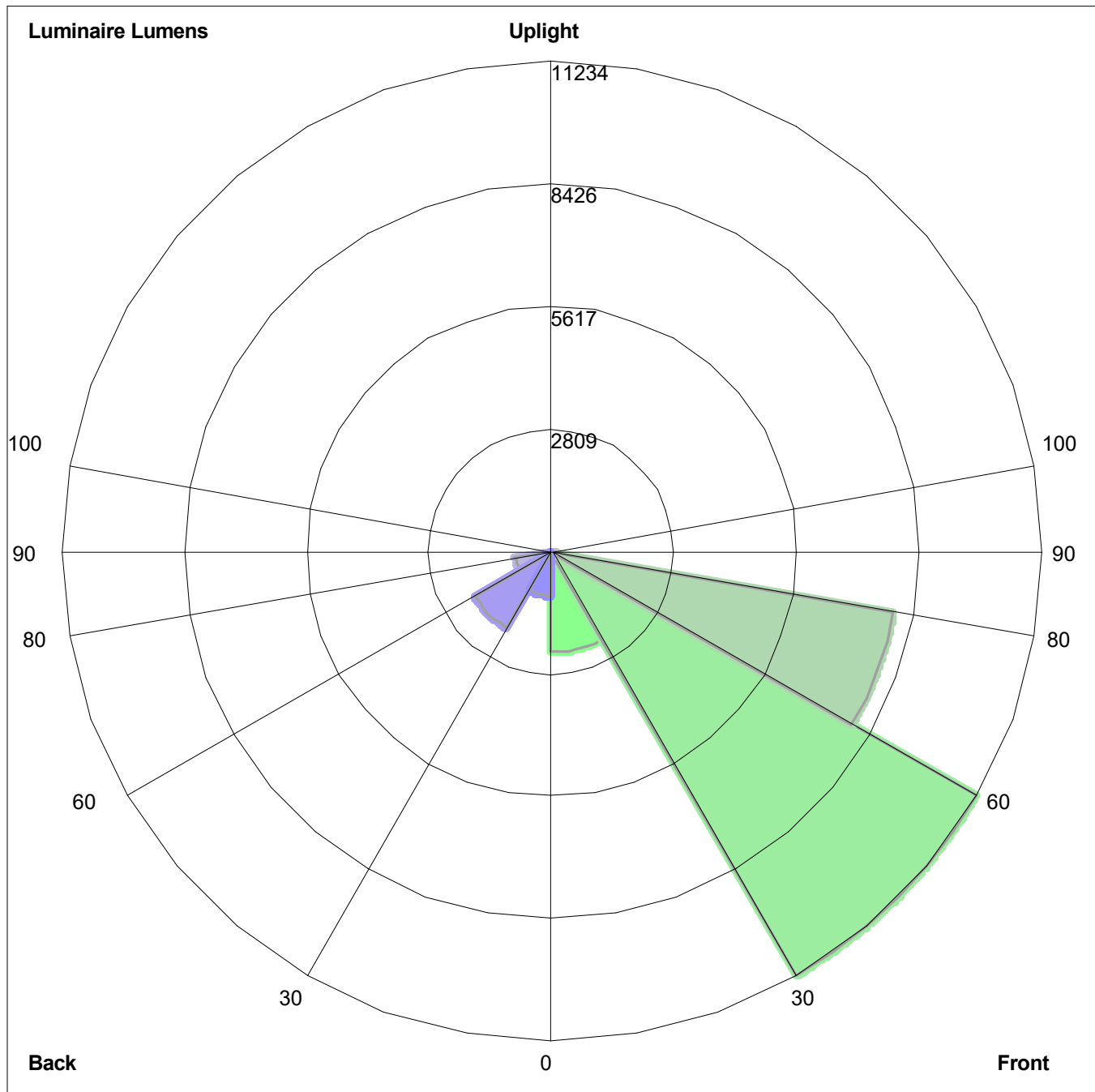


Maximum Candela = 19640 Located At Horizontal Angle = 300, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (300 - 120) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2316.2, Medium=11234.4, High=7965.4, Very High=80.2
Back: Low=1017.6, Medium=2034.9, High=841.7, Very High=26.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4