



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13253
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 02/10/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-2-LED-25L-40
[OTHER] TEST PROCEDURE: IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27173
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21961
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	21961
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	44 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1435 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-40.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1559.4	N.A.	5.7
FM - Front-Medium (30-60)	10535.9	N.A.	38.8
FH - Front-High (60-80)	5390.0	N.A.	19.8
FVH - Front-Very High (80-90)	139.9	N.A.	0.5
BL - Back-Low (0-30)	1369.5	N.A.	5.0
BM - Back-Medium (30-60)	5886.3	N.A.	21.7
BH - Back-High (60-80)	2062.0	N.A.	7.6
BVH - Back-Very High (80-90)	205.5	N.A.	0.8
UL - Uplight-Low (90-100)	11.9	N.A.	0.0
UH - Uplight-High (100-180)	13.0	N.A.	0.0
Total	27173.4	N.A.	100.0
BUG Rating	B4-U2-G3		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-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>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	2378	2378	2378	2378	2378	2378	2378	2378	2378	2378
2.5	2546	2517	2494	2449	2408	2372	2350	2320	2324	2323
5.0	2422	2431	2398	2388	2456	2508	2490	2475	2351	2338
7.5	2456	2446	2417	2455	2371	2381	2378	2551	2448	2401
10.0	2589	2561	2622	2553	2519	2503	2469	2541	2700	2639
12.5	2707	2735	2734	2696	2686	2738	2637	2693	2795	2842
15.0	2960	2954	3005	2936	2860	2907	2964	2902	3069	3127
17.5	3220	3150	3205	3171	3232	3167	3229	3277	3330	3408
20.0	3582	3551	3452	3364	3467	3545	3558	3660	3721	3745
22.5	3782	3761	3755	3755	3662	3819	3910	4066	4064	4138
25.0	4200	4224	4157	4016	4061	4091	4355	4555	4625	4684
27.5	4558	4590	4559	4530	4361	4524	4700	5027	5236	5312
30.0	5110	5156	5051	4908	4914	4898	5046	5562	5874	5943
32.5	5517	5577	5612	5603	5366	5396	5500	6048	6472	6481
35.0	6157	6166	6190	6145	5983	5912	5985	6420	6979	7006
37.5	6932	6989	6948	6837	6614	6467	6410	6816	7577	7615
40.0	7852	7920	7915	7729	7461	7174	6989	7095	8166	8232
42.5	8800	8886	8912	8852	8510	8058	7652	7438	8727	8852
45.0	9536	9632	9751	9957	9679	9175	8483	7804	9289	9514
47.5	9798	9893	10154	10592	10679	10510	9711	8368	9944	10317
50.0	9501	9577	9892	10572	11221	11849	11389	9330	10856	11357
52.5	8633	8631	9015	9845	10998	12689	13286	10708	12148	12919
55.0	7213	7161	7532	8451	9944	12640	15209	12487	13712	14722
57.5	5064	5197	5524	6401	8061	11476	16399	14877	15592	16754
60.0	3237	3330	3528	4148	5573	9044	16616	17362	17569	18790
62.5	2191	2198	2267	2598	3394	5691	15449	18706	19694	20839
65.0	1610	1615	1659	1859	2176	3172	12312	18386	20828	21961
67.5	1213	1230	1270	1402	1648	2058	8065	16019	20078	20994
70.0	932	960	971	1098	1302	1519	4480	11755	16344	16212
72.5	675	711	698	831	1034	1200	2424	7311	9494	8444
75.0	401	425	394	522	740	960	1500	4188	4246	3414
77.5	288	326	271	318	429	692	986	2451	2100	1636
80.0	282	318	247	243	295	451	613	1435	1183	938
82.5	338	342	238	184	217	321	338	823	736	606
85.0	328	331	197	132	146	206	214	288	376	332
87.5	166	159	97	55	48	75	88	98	111	115
90.0	7	8	6	4	4	7	18	35	42	44
92.5	4	4	4	4	3	6	16	34	42	42
95.0	4	4	4	4	3	4	14	31	40	40
97.5	4	3	3	4	3	4	11	27	35	35
100.0	4	3	3	4	3	3	7	20	27	28
102.5	4	3	3	3	3	3	3	11	18	18
105.0	3	3	3	3	1	1	1	4	8	10
107.5	3	3	3	3	1	0	0	0	3	3
110.0	3	3	3	3	1	0	0	0	0	0
112.5	3	3	3	3	1	0	0	0	0	0
115.0	4	3	3	3	1	0	0	0	0	0
117.5	4	3	3	3	1	0	0	0	0	0
120.0	4	4	3	3	1	0	0	0	0	0
122.5	4	4	4	4	1	1	0	0	0	0
125.0	6	6	4	4	3	1	0	0	0	0
127.5	6	6	4	4	3	1	0	0	0	0
130.0	7	7	6	4	3	1	1	0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-40.IES

CANDELA TABULATION - (Cont.)

132.5	8	8	7	6	3	3	1	0	0	0
135.0	10	8	7	6	4	3	1	0	0	0
137.5	10	10	8	7	4	3	1	1	0	0
140.0	11	11	8	7	4	3	1	1	0	0
142.5	10	10	8	6	4	3	1	1	0	0
145.0	6	6	3	3	1	0	0	0	0	0
147.5	3	1	1	0	0	0	0	0	0	0
150.0	3	1	1	0	0	0	0	0	0	0
152.5	1	1	1	0	0	0	0	0	0	0
155.0	1	1	0	0	0	0	0	0	0	0
157.5	1	1	0	0	0	0	0	0	0	0
160.0	1	1	0	0	0	0	0	0	0	0
162.5	1	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	1	0	0	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	1	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	2378	2378	2378	2378	2378	2378	2378	2378	2378	2378
2.5	2336	2333	2329	2309	2300	2279	2302	2334	2343	2355
5.0	2323	2243	2235	2260	2278	2263	2338	2239	2151	2114
7.5	2312	2309	2267	2266	2313	2140	2012	1975	2012	1963
10.0	2441	2353	2330	2443	2238	2073	1995	1975	1973	2027
12.5	2709	2554	2558	2536	2252	2093	2109	2058	2079	2136
15.0	2937	2774	2752	2686	2306	2248	2177	2212	2293	2414
17.5	3235	3093	3007	2797	2476	2351	2381	2540	2652	2815
20.0	3626	3452	3373	2975	2633	2529	2655	2888	3005	3244
22.5	4043	3899	3705	3131	2774	2768	2996	3247	3687	3956
25.0	4623	4339	4202	3385	2985	3065	3331	3844	4229	4660
27.5	5196	4876	4789	3672	3247	3382	3886	4362	5027	5417
30.0	5823	5441	5284	3925	3540	3755	4328	5024	5519	5965
32.5	6313	5868	5634	4172	3842	4113	4810	5417	6104	6480
35.0	6861	6331	6021	4378	4124	4548	5134	5783	6349	6609
37.5	7461	6834	6437	4609	4348	4742	5308	5911	6336	6515
40.0	8090	7369	6868	4862	4521	4894	5362	5878	6105	6174
42.5	8804	7944	7352	5091	4717	4983	5270	5622	5687	5613
45.0	9555	8605	7835	5347	4816	4943	5094	5225	5155	4972
47.5	10470	9338	8346	5590	4878	4844	4836	4785	4541	4367
50.0	11651	10269	8902	5813	4932	4683	4517	4335	4049	3882
52.5	13180	11264	9487	6024	4955	4449	4152	3996	3669	3524
55.0	14923	12361	9976	6177	4857	4135	3861	3711	3303	3155
57.5	16778	13401	10266	6199	4670	3764	3564	3406	2872	2727
60.0	18500	14137	10161	5958	4352	3320	3172	2998	2438	2324
62.5	19554	14108	9368	5326	3813	2804	2700	2540	2022	1900
65.0	19367	12861	7581	4303	3107	2232	2168	2066	1648	1523
67.5	16734	10038	5199	3066	2358	1740	1737	1651	1349	1319
70.0	11522	6277	3182	2065	1757	1398	1432	1337	1197	1213
72.5	4938	3052	1995	1448	1349	1157	1213	1163	1096	1113
75.0	1856	1445	1322	1081	1079	994	1047	1039	964	898
77.5	993	879	923	878	869	868	915	797	620	508

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-40.IES

CANDELA TABULATION - (Cont.)

80.0	669	559	577	729	728	735	618	424	536	485
82.5	436	300	316	583	594	460	322	342	654	661
85.0	248	150	173	407	339	237	247	353	705	695
87.5	94	49	72	128	97	112	142	255	499	543
90.0	37	6	25	20	11	6	3	3	1	1
92.5	37	6	27	20	13	6	3	3	1	1
95.0	37	4	28	21	13	6	4	3	1	1
97.5	34	4	27	20	13	6	4	3	1	1
100.0	27	4	21	17	11	6	3	1	1	1
102.5	18	3	17	13	8	6	3	1	1	1
105.0	10	1	10	8	7	4	3	1	1	1
107.5	4	1	6	6	6	4	3	1	1	1
110.0	1	0	3	4	4	4	3	1	1	1
112.5	0	0	3	4	4	3	3	1	1	1
115.0	0	0	1	3	4	4	3	3	1	1
117.5	0	0	1	3	4	4	3	3	1	1
120.0	0	0	1	3	4	4	4	3	3	3
122.5	0	0	1	3	4	4	4	3	3	3
125.0	0	1	1	3	4	4	4	4	3	3
127.5	0	1	3	4	4	4	4	4	3	3
130.0	0	1	3	4	4	4	4	4	4	4
132.5	0	1	3	4	6	6	6	4	4	4
135.0	0	1	3	4	6	6	6	6	4	4
137.5	0	1	1	4	6	6	6	6	6	4
140.0	0	1	1	3	6	6	6	6	6	4
142.5	0	0	1	3	4	6	6	6	6	4
145.0	0	0	0	1	3	4	4	4	3	3
147.5	0	0	0	0	1	1	1	3	1	0
150.0	0	0	0	0	1	1	1	1	1	0
152.5	0	0	0	0	0	1	1	1	1	0
155.0	0	0	0	0	0	1	1	1	0	0
157.5	0	0	0	0	0	1	1	1	0	0
160.0	0	0	0	0	0	0	1	1	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	2378	2378
2.5	2355	2360
5.0	2150	2114
7.5	1953	1950
10.0	1963	1998
12.5	2154	2136
15.0	2434	2470
17.5	2821	2924
20.0	3486	3547
22.5	4116	4195
25.0	4969	4979

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-40.IES

CANDELA TABULATION - (Cont.)

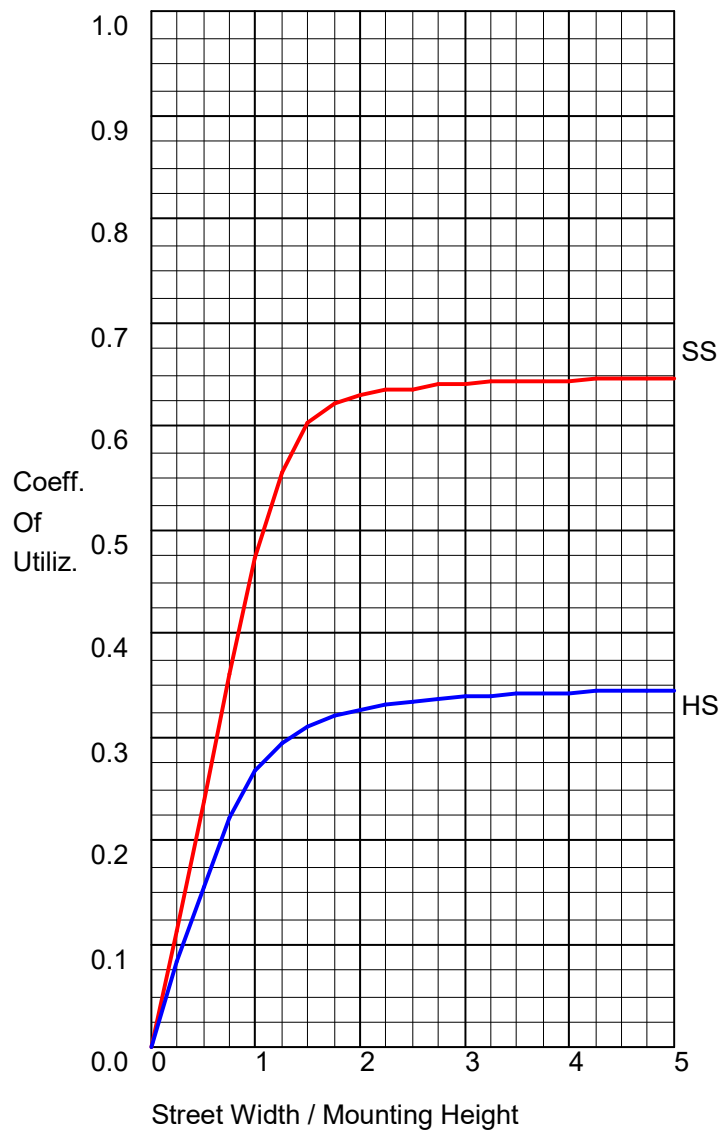
27.5	5602	5665
30.0	6284	6264
32.5	6575	6563
35.0	6648	6631
37.5	6481	6454
40.0	6075	6041
42.5	5495	5460
45.0	4836	4799
47.5	4239	4210
50.0	3792	3764
52.5	3438	3411
55.0	3031	3021
57.5	2626	2618
60.0	2226	2181
62.5	1805	1794
65.0	1517	1533
67.5	1397	1437
70.0	1335	1405
72.5	1245	1351
75.0	949	1043
77.5	539	630
80.0	542	608
82.5	722	743
85.0	732	743
87.5	450	558
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	1	0
125.0	1	0
127.5	1	1
130.0	1	1
132.5	3	3
135.0	3	3
137.5	4	4
140.0	4	4
142.5	3	3
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-2-LED-25L-40.IES

CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	0	0

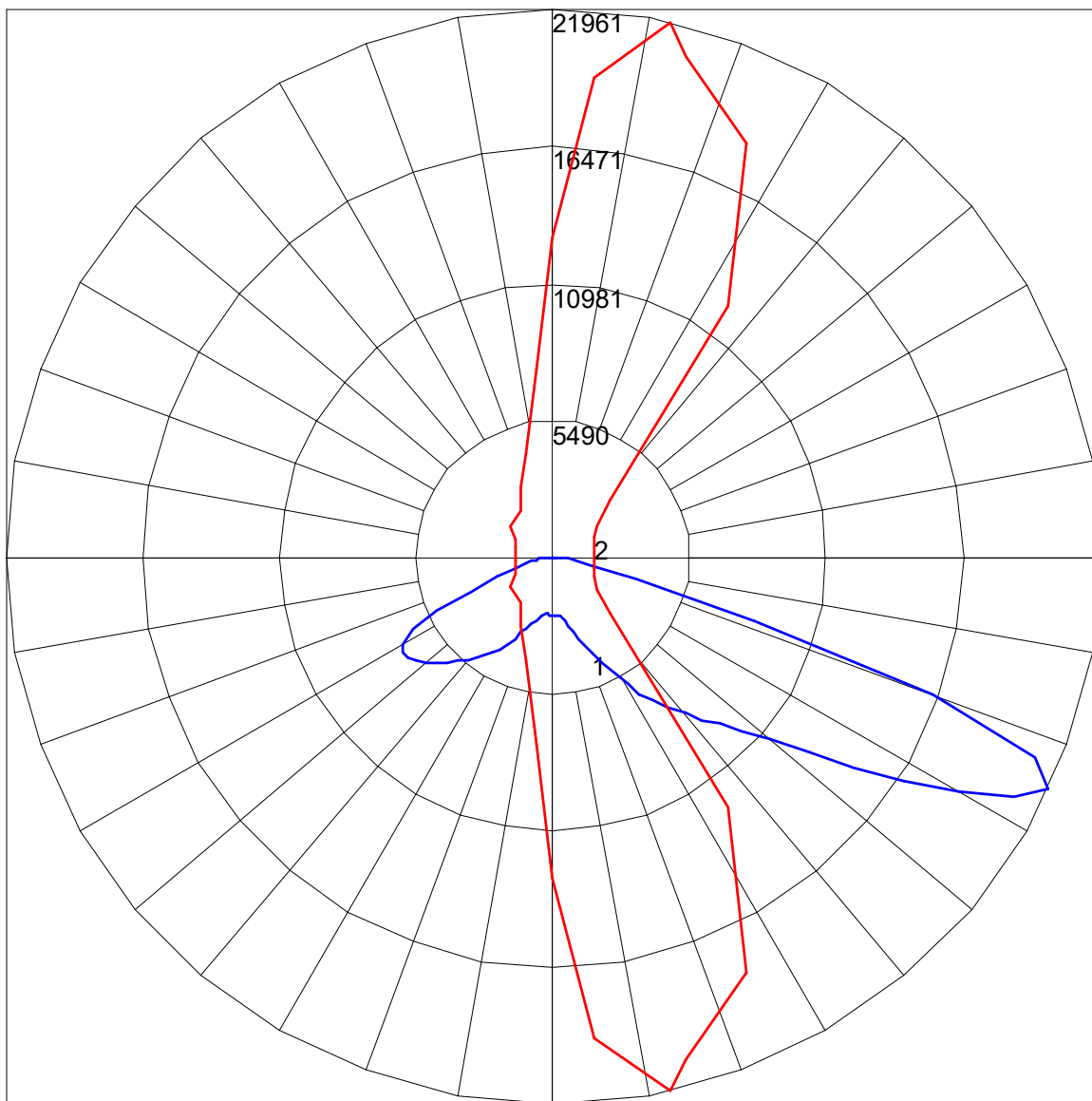
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

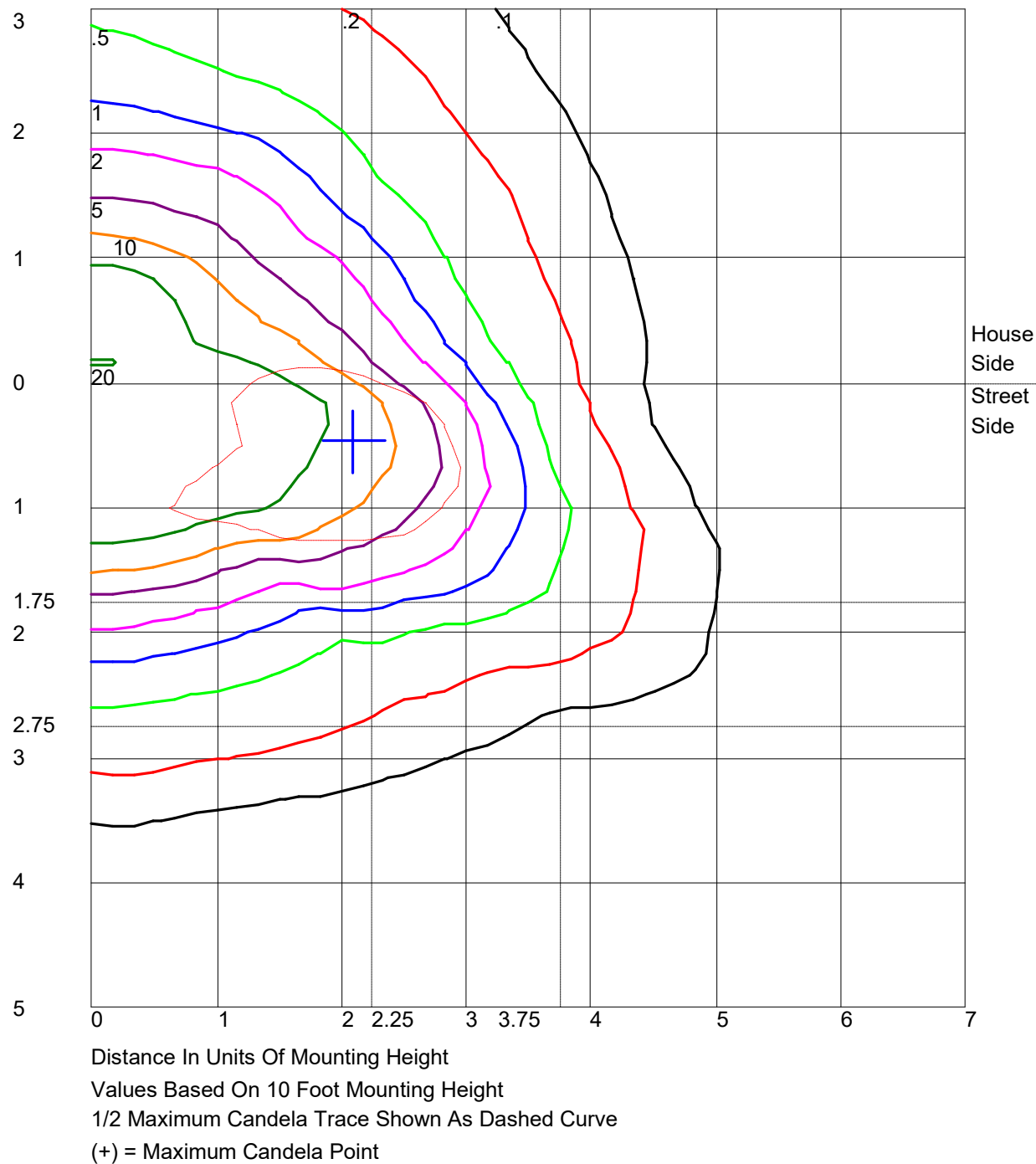
	Lumens	Percent Of Luminaire
Downward Street Side	17625.1	64.9
Downward House Side	9523.2	35.0
Downward Total	27148.4	99.9
Upward Street Side	13.6	0.1
Upward House Side	11.4	0.0
Upward Total	25.0	0.1
Total Flux	27173.4	100.0

POLAR GRAPH

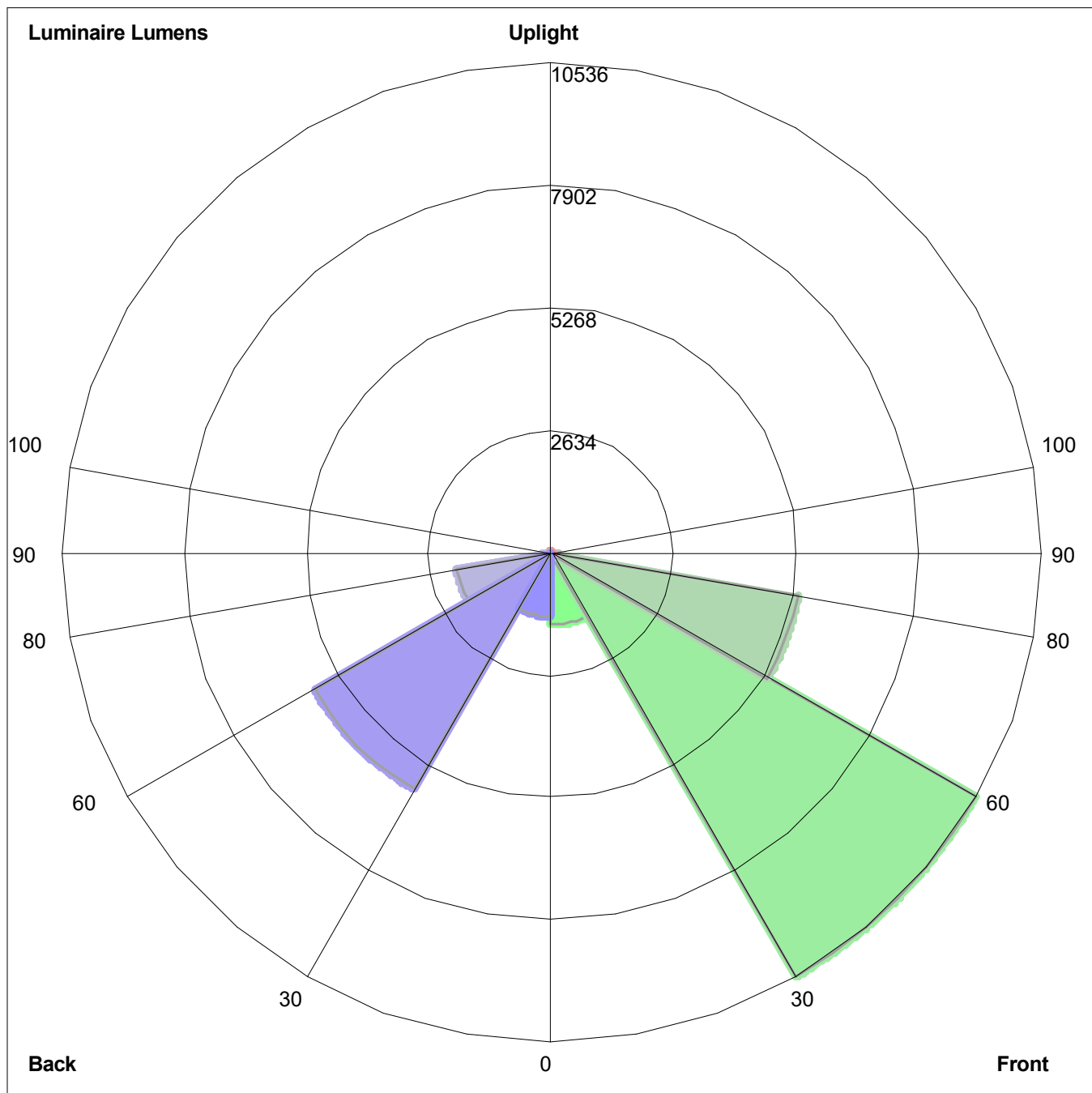


Maximum Candela = 21961 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1559.4, Medium=10535.9, High= 5390.0, Very High=139.9
Back: Low=1369.5, Medium=5886.3, High= 2062.0, Very High=205.5
Uplight: Low=11.9, High=13.0

BUG Rating : B4-U2-G3