



IES ROAD REPORT
PHOTOMETRIC FILENAME : VALS-18L-LC-30K8-IS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-15003
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 08/22/24
[ISSUEDATE] 09/23/24
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] VALS-18L-LC-30K8-IS
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[TEST PROCEDURE] IESNA LM-79-19
[FACTORED] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7496
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	111
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10583
Maximum Candela Angle	45H 75V
Maximum Candela (<90 Degrees Vertical)	10583
Maximum Candela Angle (<90 Degrees Vertical)	45H 75V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	7243 (96.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	329.2	N.A.	4.4
FM - Front-Medium (30-60)	2501.2	N.A.	33.4
FH - Front-High (60-80)	3673.6	N.A.	49.0
FVH - Front-Very High (80-90)	365.8	N.A.	4.9
BL - Back-Low (0-30)	76.5	N.A.	1.0
BM - Back-Medium (30-60)	295.1	N.A.	3.9
BH - Back-High (60-80)	247.4	N.A.	3.3
BVH - Back-Very High (80-90)	7.4	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	7496.2	N.A.	100.0
BUG Rating	B1-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</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>
0.0	110	110	110	110	110	110	110	110	110	110
2.5	111	114	113	116	128	131	133	131	141	140
5.0	210	224	228	263	303	317	323	335	325	304
7.5	361	377	387	431	466	480	487	492	486	465
10.0	485	501	511	553	585	603	613	621	610	587
12.5	592	608	619	687	716	733	749	764	755	732
15.0	697	721	737	796	830	861	886	903	891	862
17.5	800	818	834	928	991	1045	1105	1104	1078	1020
20.0	897	928	970	1110	1215	1286	1360	1358	1317	1224
22.5	1031	1067	1133	1342	1483	1590	1642	1637	1587	1465
25.0	1186	1240	1329	1599	1764	1876	1927	1918	1861	1748
27.5	1355	1448	1540	1862	2039	2151	2199	2186	2154	2014
30.0	1537	1652	1763	2118	2302	2431	2474	2451	2414	2276
32.5	1731	1869	1998	2375	2575	2715	2769	2733	2666	2529
35.0	1933	2094	2236	2646	2883	3002	3082	3022	2918	2771
37.5	2147	2327	2483	2924	3178	3297	3405	3350	3194	3020
40.0	2367	2572	2740	3216	3486	3597	3707	3637	3483	3287
42.5	2601	2832	3010	3543	3786	3897	3976	3920	3770	3568
45.0	2847	3102	3292	3839	4075	4173	4220	4189	4049	3854
47.5	3099	3377	3600	4111	4321	4400	4472	4428	4321	4145
50.0	3360	3651	3875	4346	4500	4612	4674	4661	4563	4404
52.5	3662	3929	4148	4540	4618	4755	4859	4860	4744	4626
55.0	3999	4269	4481	4726	4747	4894	5075	5053	4892	4863
57.5	4472	4838	5005	5042	4884	5090	5340	5276	5069	5221
60.0	5095	5542	5725	5690	5129	5345	5658	5548	5283	5782
62.5	5595	6153	6405	6472	5688	5641	5986	5847	5694	6703
65.0	5963	6727	7055	7231	6404	6098	6344	6198	6334	7769
67.5	7006	8169	8558	8481	7272	6698	6700	6773	7199	8607
70.0	6758	8292	9357	10388	8738	7820	7824	8066	7966	8357
72.5	5031	6624	7646	9665	9829	10121	9369	9771	7401	7147
75.0	2865	4291	5127	7548	8367	10387	10583	9956	6195	4850
77.5	1324	1892	2447	4794	6218	8666	9714	8457	4073	2525
80.0	717	1004	1254	2571	3891	6474	7243	5742	2265	1225
82.5	388	487	607	1296	1990	3924	4426	3444	1555	722
85.0	123	162	215	630	1098	1864	2488	2019	1012	347
87.5	46	62	89	274	522	828	997	650	405	145
90.0	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	110	110	110	110	110	110	110	110	110	110
2.5	137	135	134	131	128	123	118	115	111	109
5.0	270	247	225	185	153	128	118	113	109	106
7.5	431	403	372	295	211	140	117	111	107	102
10.0	549	519	498	416	290	161	116	109	103	98
12.5	674	648	606	508	367	190	116	106	99	93
15.0	815	788	732	595	431	220	113	102	95	88
17.5	939	904	852	678	478	243	109	98	89	83
20.0	1091	1033	955	759	498	252	106	95	85	78
22.5	1303	1191	1068	801	487	238	103	91	81	73
25.0	1522	1377	1205	817	448	203	102	88	78	67
27.5	1751	1573	1354	821	389	163	101	85	74	62

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PHOTOMETRIC FILENAME : VALS-18L-LC-30K8-IS.IES

CANDELA TABULATION - (Cont.)

30.0	1987	1773	1502	813	322	134	99	83	69	58
32.5	2225	1979	1650	806	260	123	93	78	65	54
35.0	2456	2186	1800	799	203	114	88	74	60	53
37.5	2687	2402	1959	793	166	106	84	71	58	50
40.0	2933	2631	2127	786	143	102	83	67	54	49
42.5	3196	2877	2329	772	130	102	84	65	53	47
45.0	3480	3148	2534	760	122	101	83	64	51	46
47.5	3779	3478	2766	762	119	102	82	63	51	45
50.0	4111	3802	3021	781	124	102	81	63	52	45
52.5	4438	4158	3311	802	139	103	81	64	53	43
55.0	4873	4663	3711	819	153	106	81	65	53	43
57.5	5514	5390	4234	804	157	110	81	65	53	41
60.0	6500	6408	4912	720	153	115	80	65	53	39
62.5	7544	7353	5381	564	143	111	75	64	53	38
65.0	8362	7992	5574	421	129	103	71	63	50	35
67.5	8773	8092	5286	274	103	91	67	61	45	32
70.0	8004	6625	3825	188	82	81	65	60	39	26
72.5	5243	4014	2074	175	71	70	62	56	33	23
75.0	3012	2145	1047	138	60	61	61	53	28	19
77.5	1339	960	522	71	51	55	49	32	25	18
80.0	587	401	249	51	42	43	26	25	20	14
82.5	347	178	104	41	37	26	21	19	15	11
85.0	174	92	51	27	24	19	16	13	11	8
87.5	58	26	21	18	17	14	11	9	8	7
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>175.0</u>	<u>180.0</u>	<u>185.0</u>	<u>195.0</u>	<u>205.0</u>	<u>215.0</u>	<u>225.0</u>	<u>235.0</u>	<u>245.0</u>	<u>255.0</u>
0.0	110	110	110	110	110	110	110	110	110	110
2.5	107	105	103	100	99	99	100	101	102	102
5.0	103	102	99	96	95	95	95	96	97	99
7.5	99	96	95	91	89	89	89	90	93	95
10.0	93	91	89	86	83	82	81	83	85	88
12.5	88	85	83	80	76	74	74	75	78	81
15.0	82	80	77	72	68	67	67	69	71	73
17.5	76	73	70	65	61	61	62	63	63	65
20.0	70	67	63	58	56	57	60	60	58	59
22.5	64	60	58	53	52	53	55	55	54	54
25.0	59	56	53	51	48	49	51	51	51	51
27.5	55	53	51	48	46	45	45	46	47	48
30.0	53	51	49	46	43	40	39	41	45	46
32.5	50	48	46	44	40	37	35	38	43	45
35.0	47	46	45	40	36	33	32	35	39	43
37.5	46	44	41	38	32	30	30	32	36	39
40.0	45	42	39	34	28	26	27	28	32	37
42.5	43	40	38	31	25	24	24	25	29	34
45.0	41	39	35	28	23	21	21	23	26	31
47.5	39	36	32	25	21	18	18	21	25	28
50.0	38	34	31	24	18	16	16	18	22	26
52.5	36	32	28	22	18	15	15	18	21	25
55.0	34	31	26	20	16	13	14	16	19	23
57.5	32	28	25	18	14	11	12	14	18	21
60.0	29	25	22	16	11	10	10	12	16	19
62.5	25	21	18	12	8	6	6	9	12	16
65.0	22	18	15	10	5	4	4	4	8	11

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PHOTOMETRIC FILENAME : VALS-18L-LC-30K8-IS.IES

CANDELA TABULATION - (Cont.)

67.5	18	14	11	6	3	1	1	3	4	6
70.0	14	11	8	4	1	0	0	0	1	3
72.5	11	8	6	3	0	0	0	0	0	0
75.0	11	7	5	3	0	0	0	0	0	0
77.5	9	6	5	3	1	0	0	0	0	0
80.0	8	6	6	6	6	7	7	7	4	2
82.5	7	6	6	5	4	4	4	4	2	0
85.0	6	6	6	6	6	5	4	4	2	0
87.5	6	7	7	8	6	6	5	4	2	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>265.0</u>	<u>270.0</u>	<u>275.0</u>	<u>285.0</u>	<u>295.0</u>	<u>305.0</u>	<u>315.0</u>	<u>325.0</u>	<u>335.0</u>	<u>345.0</u>
0.0	110	110	110	110	110	110	110	110	110	110
2.5	102	103	102	102	102	102	102	102	102	104
5.0	101	102	102	102	102	102	102	105	116	144
7.5	96	97	98	99	100	101	102	109	151	233
10.0	91	93	93	95	97	98	101	115	207	340
12.5	85	87	88	89	93	95	99	123	270	440
15.0	77	80	81	84	88	91	96	132	336	533
17.5	69	73	74	79	82	88	93	143	390	620
20.0	61	65	67	73	77	83	90	150	414	682
22.5	56	58	60	67	73	79	88	148	404	736
25.0	53	54	55	61	69	76	87	137	368	740
27.5	50	51	53	56	65	73	86	121	309	712
30.0	47	49	50	53	60	69	85	109	240	671
32.5	46	46	48	50	55	65	82	104	176	623
35.0	45	45	46	48	52	60	76	100	133	571
37.5	43	44	45	46	49	56	71	91	108	512
40.0	40	42	43	45	46	53	67	83	96	459
42.5	38	39	41	43	45	50	63	78	93	420
45.0	36	38	39	41	43	47	60	76	89	402
47.5	33	35	37	39	41	45	58	74	89	395
50.0	31	33	34	39	41	45	55	71	95	386
52.5	29	32	33	38	41	45	53	70	100	372
55.0	28	31	32	36	41	46	53	69	101	342
57.5	26	28	30	35	42	46	53	71	103	298
60.0	24	25	27	32	43	47	53	73	106	238
62.5	19	22	24	30	43	49	54	74	102	193
65.0	15	18	19	26	41	51	54	69	93	172
67.5	8	11	12	22	38	51	54	64	81	167
70.0	4	5	8	18	36	51	54	61	74	158
72.5	1	2	4	16	35	51	53	56	67	142
75.0	0	0	3	13	32	43	51	51	56	88
77.5	0	0	1	9	26	33	41	46	44	53
80.0	1	0	1	5	18	23	26	36	33	42
82.5	0	0	0	3	12	15	16	21	25	32
85.0	0	0	0	0	6	7	10	12	19	21
87.5	0	0	0	0	0	1	3	4	14	8
90.0	0	0	0	0	0	0	0	0	0	0

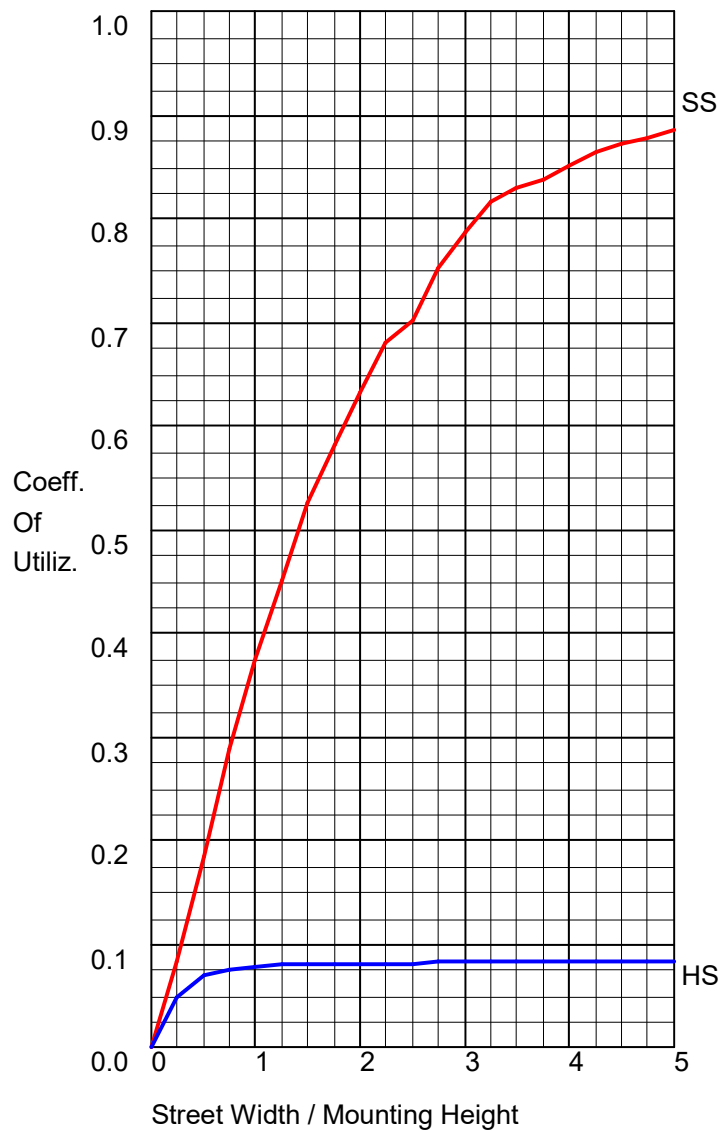
Vert. Angles	Horizontal Angles		
	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	110	110	110

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CANDELA TABULATION - (Cont.)

2.5	108	111	111
5.0	182	200	210
7.5	316	343	361
10.0	440	467	485
12.5	558	574	592
15.0	655	674	697
17.5	762	782	800
20.0	844	869	897
22.5	933	972	1031
25.0	1033	1098	1186
27.5	1147	1244	1355
30.0	1269	1392	1537
32.5	1393	1570	1731
35.0	1523	1739	1933
37.5	1657	1917	2147
40.0	1791	2102	2367
42.5	1929	2295	2601
45.0	2091	2496	2847
47.5	2241	2701	3099
50.0	2388	2917	3360
52.5	2531	3138	3662
55.0	2698	3395	3999
57.5	2909	3771	4472
60.0	3142	4201	5095
62.5	3283	4513	5595
65.0	3308	4669	5963
67.5	3522	5235	7006
70.0	2832	4701	6758
72.5	1667	3221	5031
75.0	837	1783	2865
77.5	439	830	1324
80.0	291	473	717
82.5	227	287	388
85.0	127	91	123
87.5	30	32	46
90.0	0	0	0

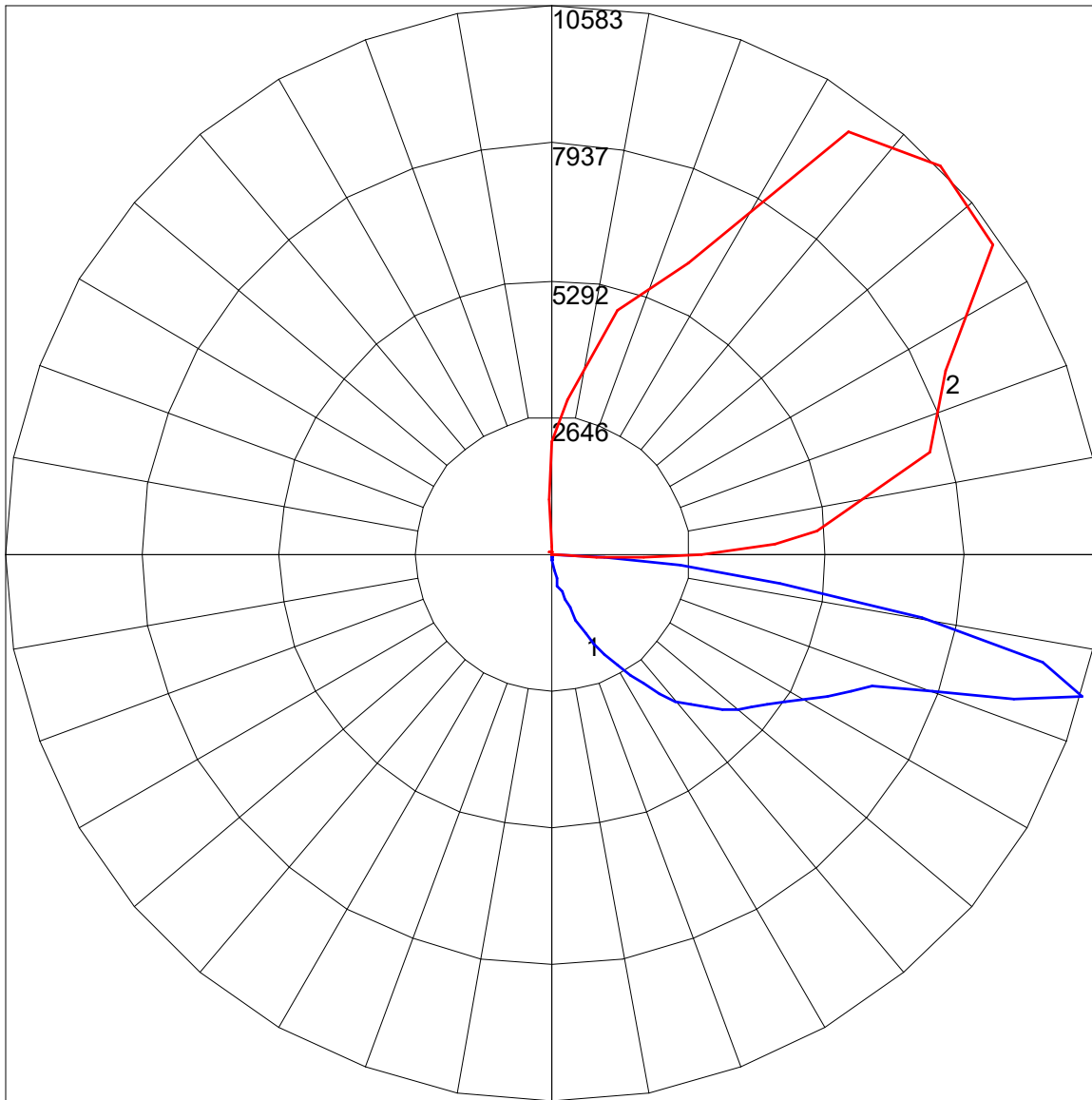
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

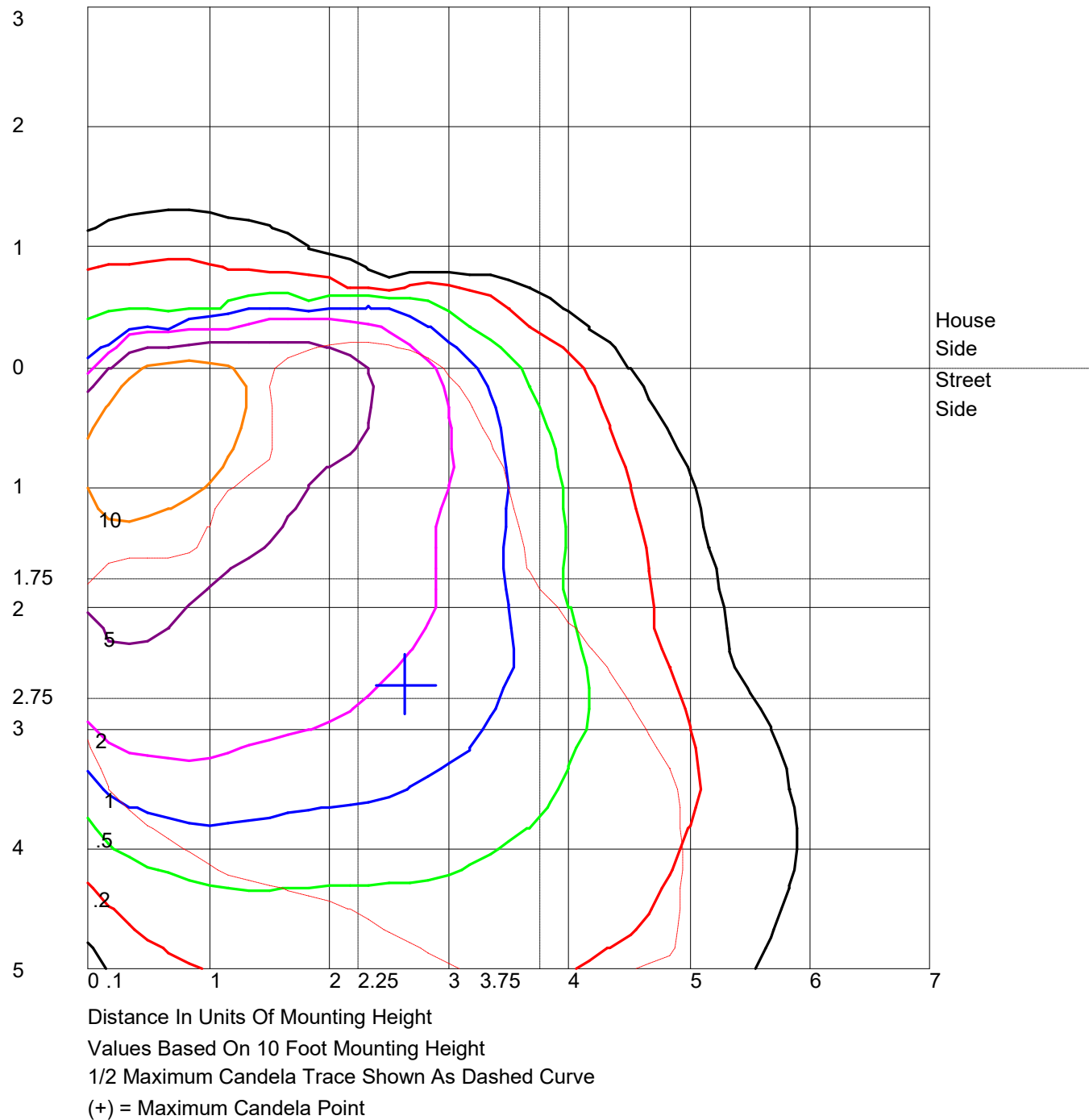
	Lumens	Percent Of Luminaire
Downward Street Side	6869.8	91.6
Downward House Side	626.4	8.4
Downward Total	7496.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7496.2	100.0

POLAR GRAPH

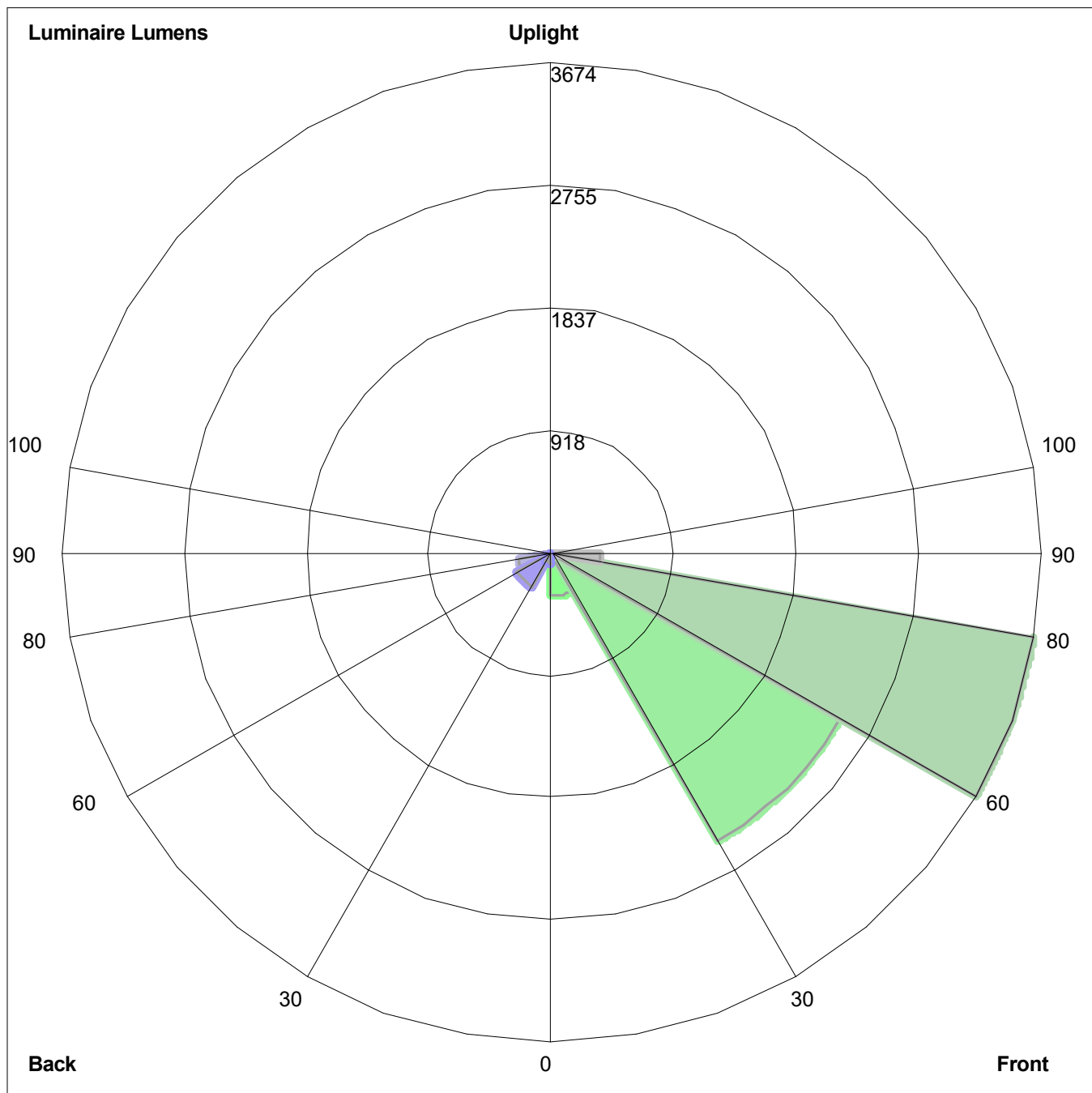


Maximum Candela = 10583 Located At Horizontal Angle = 45, Vertical Angle = 75
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=329.2, Medium=2501.2, High=3673.6, Very High=365.8
Back: Low=76.5, Medium=295.1, High=247.4, Very High=7.4
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3