



IES ROAD REPORT
PHOTOMETRIC FILENAME : VALS-27L-4F-30K8-IS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-15005
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 08/22/24
[ISSUE DATE] 09/23/24
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] VALS-27L-4F-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	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15986
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	178
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22064
Maximum Candela Angle	35H 72.5V
Maximum Candela (<90 Degrees Vertical)	22064
Maximum Candela Angle (<90 Degrees Vertical)	35H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	8124 (50.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	709.3	N.A.	4.4
FM - Front-Medium (30-60)	5102.6	N.A.	31.9
FH - Front-High (60-80)	9334.4	N.A.	58.4
FVH - Front-Very High (80-90)	568.0	N.A.	3.6
BL - Back-Low (0-30)	91.4	N.A.	0.6
BM - Back-Medium (30-60)	133.3	N.A.	0.8
BH - Back-High (60-80)	44.5	N.A.	0.3
BVH - Back-Very High (80-90)	2.2	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	15985.7	N.A.	100.0
BUG Rating	B0-U0-G4		

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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>37.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	559	559	559	559	559	559	559	559	559	559
2.5	704	696	694	694	687	674	670	646	636	613
5.0	964	967	960	931	905	883	861	801	757	691
7.5	1208	1208	1201	1167	1136	1118	1073	989	899	788
10.0	1360	1364	1364	1342	1328	1314	1280	1209	1072	914
12.5	1458	1460	1461	1449	1452	1453	1453	1412	1286	1071
15.0	1544	1537	1540	1531	1546	1549	1573	1592	1517	1272
17.5	1602	1595	1603	1601	1633	1642	1688	1758	1763	1523
20.0	1636	1630	1642	1654	1717	1735	1818	1931	2010	1791
22.5	1636	1632	1651	1689	1809	1835	1966	2127	2258	2072
25.0	1608	1603	1627	1700	1914	1959	2145	2355	2505	2344
27.5	1567	1560	1581	1692	2023	2102	2378	2618	2743	2590
30.0	1550	1539	1548	1678	2134	2260	2655	2926	2980	2817
32.5	1650	1626	1579	1700	2253	2415	2943	3274	3218	3004
35.0	1863	1842	1734	1797	2426	2619	3246	3620	3512	3163
37.5	2105	2081	1972	1984	2693	2918	3579	3974	3855	3299
40.0	2433	2398	2246	2249	3086	3341	4008	4308	4217	3419
42.5	2768	2746	2566	2580	3606	3954	4579	4709	4574	3567
45.0	3147	3082	2895	2977	4216	4631	5261	5186	4866	3773
47.5	3489	3416	3219	3361	4912	5413	6057	5729	5150	4060
50.0	3869	3788	3566	3750	5697	6284	6922	6326	5496	4362
52.5	4333	4299	4154	4214	6593	7269	7907	6977	5911	4688
55.0	4907	5001	5491	5066	7777	8405	9044	7732	6396	5013
57.5	5891	6150	7655	6784	9105	9674	10289	8632	6983	5396
60.0	7731	8218	9865	8827	10799	11131	11420	9593	7818	5814
62.5	9692	10378	11729	10712	12598	12825	12477	10499	8825	6478
65.0	10775	11434	12764	12171	14986	15061	13964	11423	9817	7109
67.5	11151	11726	13210	13517	17330	17515	16017	11807	9478	6752
70.0	10263	10887	12858	14788	20523	20976	17284	10222	8068	5685
72.5	8957	9528	11918	14836	22064	22047	15068	7971	6460	3758
75.0	7585	7985	10647	13982	19384	18942	10676	5763	3962	1382
77.5	4821	5132	7862	11963	14031	12952	6646	3300	1473	333
80.0	2470	2651	4992	7360	8124	7176	3046	1083	448	236
82.5	1432	1452	2229	3919	4303	3544	1097	281	270	180
85.0	613	609	997	2604	2190	1573	290	119	165	116
87.5	311	303	538	1037	563	326	79	50	75	59
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	559	559	559	559	559	559	559	559	559	559
2.5	589	575	561	531	509	480	461	441	424	417
5.0	622	585	549	477	417	358	318	284	262	250
7.5	670	606	546	431	339	270	234	215	206	200
10.0	739	644	553	389	273	225	207	199	193	188
12.5	829	697	568	347	235	205	193	185	176	170
15.0	948	763	586	306	211	192	179	164	151	143
17.5	1085	840	595	268	195	177	157	140	131	127
20.0	1237	907	589	235	183	159	137	127	121	116
22.5	1395	961	567	208	169	143	127	118	111	108
25.0	1536	999	529	191	157	132	119	110	103	101
27.5	1665	1019	479	178	145	124	113	103	96	94

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CANDELA TABULATION - (Cont.)

30.0	1775	1012	422	168	136	118	107	96	90	88
32.5	1862	986	368	160	127	111	100	90	86	83
35.0	1928	949	318	152	120	103	92	85	81	79
37.5	1982	911	280	144	114	97	86	80	75	74
40.0	2037	878	259	137	108	91	80	74	69	67
42.5	2095	857	249	131	102	85	74	69	63	61
45.0	2160	845	252	123	96	81	70	64	57	54
47.5	2239	844	265	116	91	75	66	59	52	48
50.0	2345	860	290	109	85	71	61	53	46	41
52.5	2505	907	321	102	79	67	56	47	39	33
55.0	2681	979	354	96	74	60	50	41	30	25
57.5	2892	1092	397	89	67	54	43	33	21	16
60.0	3166	1307	454	80	60	46	35	24	12	8
62.5	3570	1657	483	68	52	39	25	14	6	4
65.0	3739	1678	284	56	41	28	16	7	2	0
67.5	3041	920	104	44	32	19	8	3	0	0
70.0	1891	287	69	36	25	11	4	0	0	0
72.5	801	151	60	29	18	7	3	0	0	0
75.0	254	94	52	22	10	4	2	1	0	0
77.5	126	72	44	18	7	4	4	3	1	0
80.0	95	55	34	11	6	6	5	7	5	2
82.5	69	39	22	6	4	4	4	4	4	0
85.0	48	21	9	3	3	4	4	4	2	0
87.5	27	10	4	2	2	3	4	4	2	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

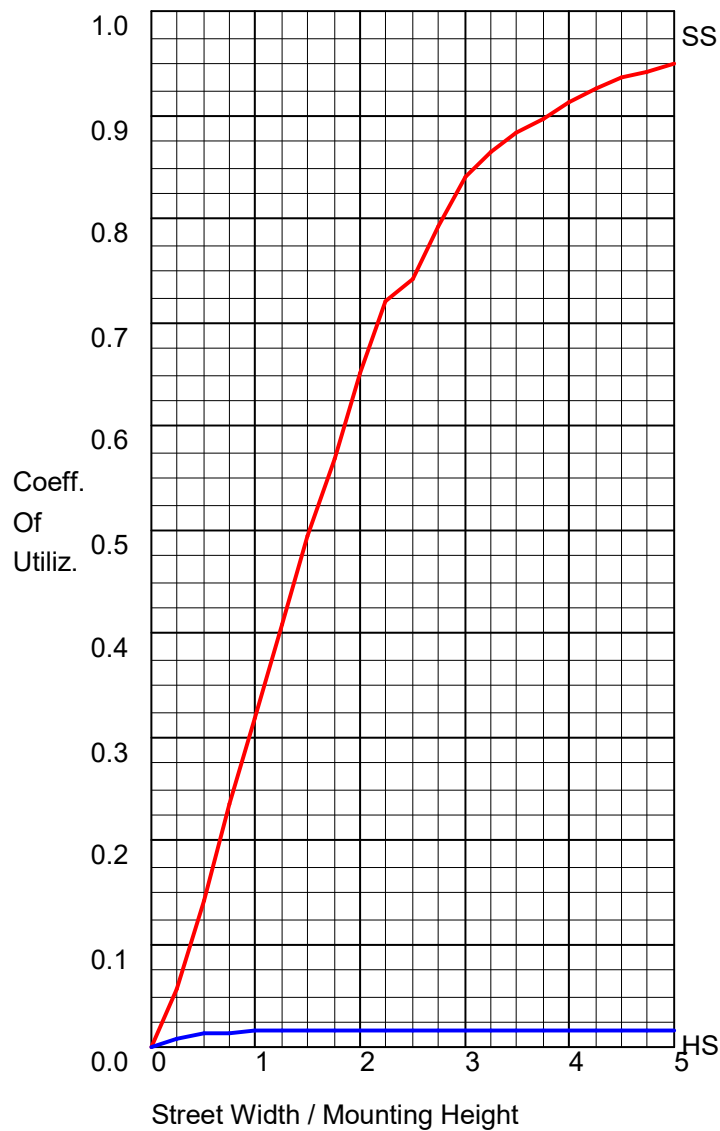
	<u>175.0</u>	<u>180.0</u>
0.0	559	559
2.5	420	421
5.0	242	237
7.5	196	196
10.0	185	185
12.5	165	165
15.0	142	142
17.5	127	126
20.0	115	115
22.5	106	106
25.0	99	99
27.5	93	93
30.0	88	88
32.5	84	85
35.0	80	80
37.5	74	74
40.0	68	68
42.5	61	61
45.0	54	54
47.5	47	47
50.0	40	40
52.5	32	32
55.0	23	23
57.5	14	14
60.0	6	6
62.5	0	0
65.0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

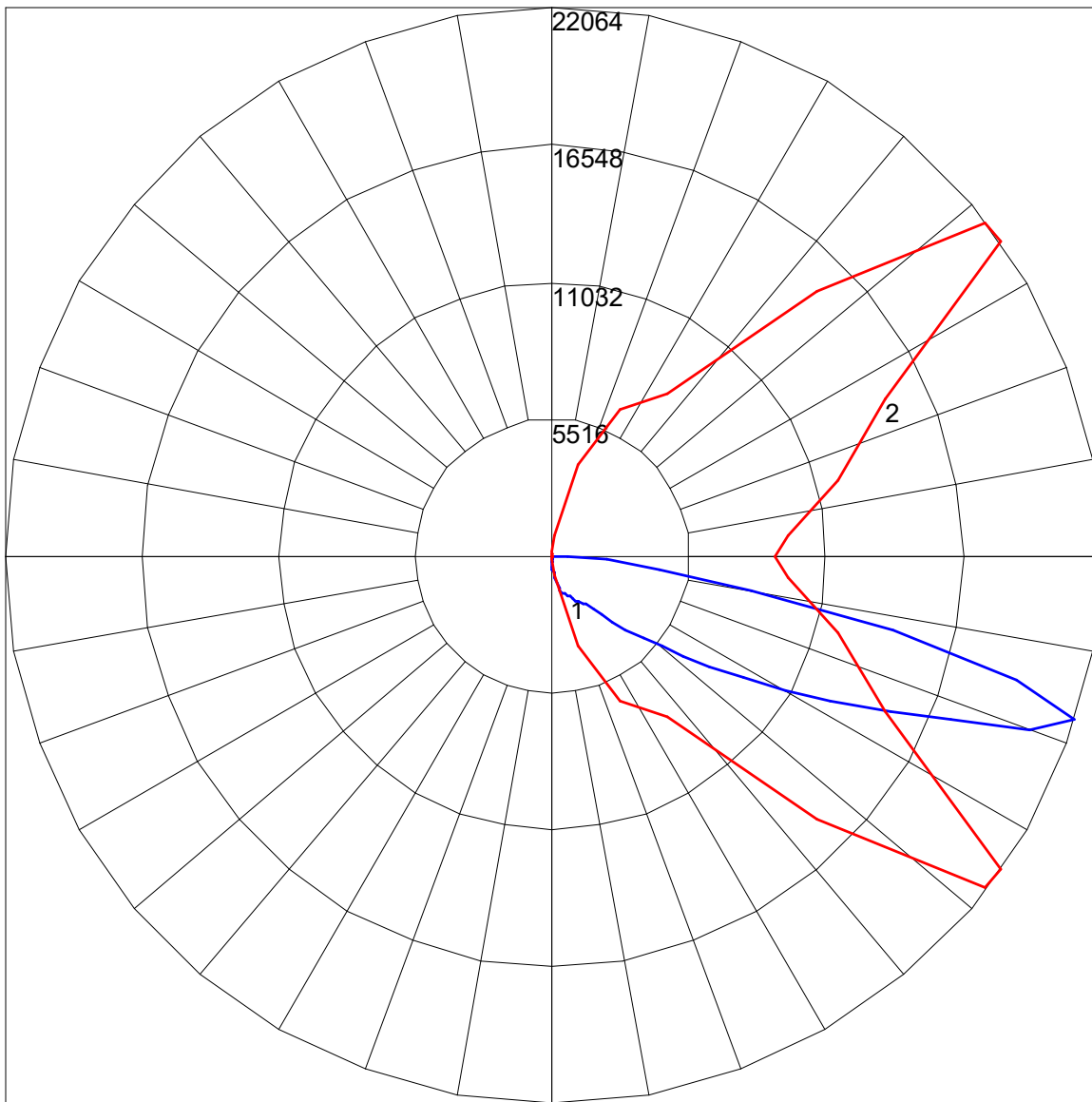
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

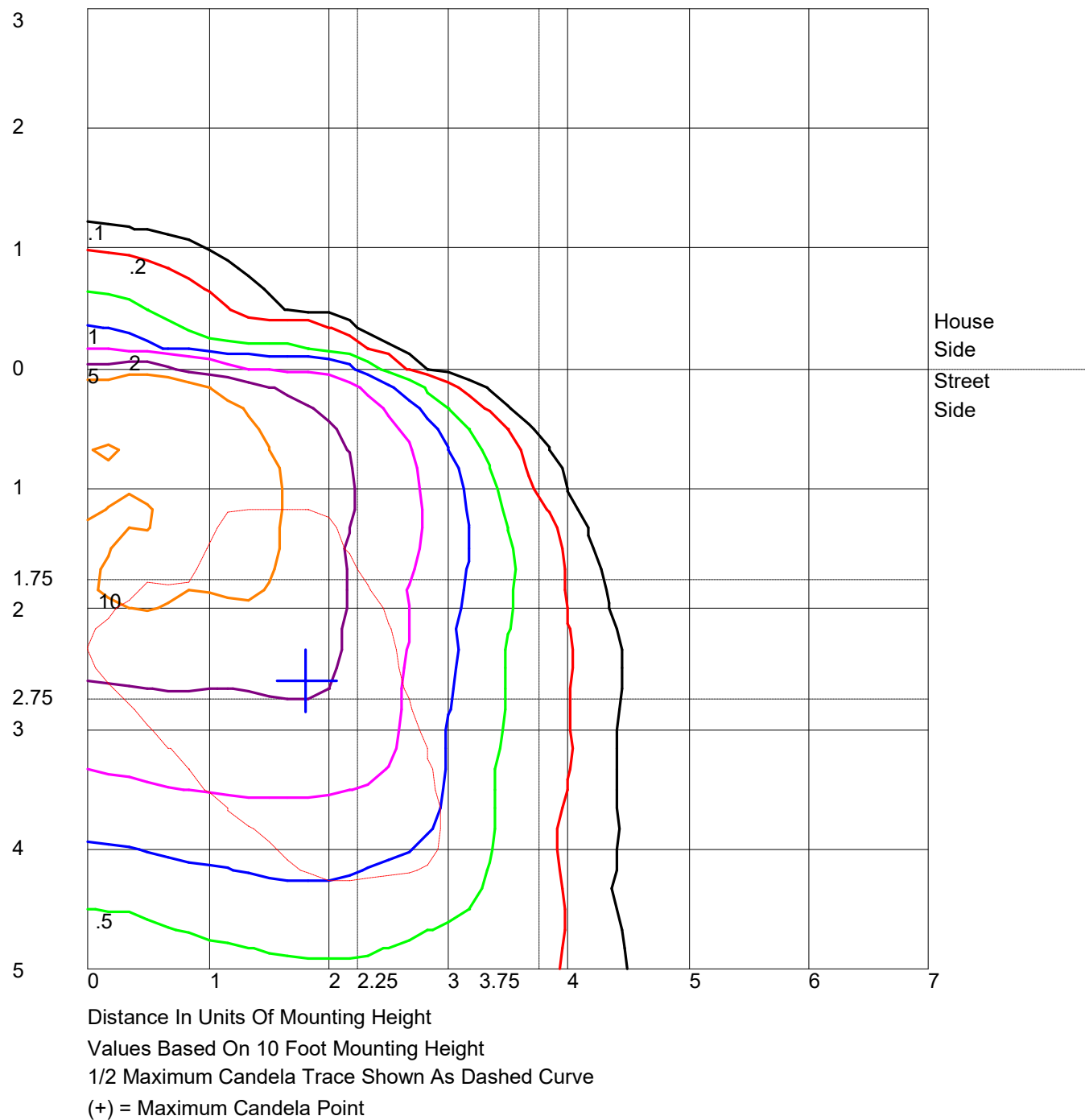
	Lumens	Percent Of Luminaire
Downward Street Side	15714.2	98.3
Downward House Side	271.4	1.7
Downward Total	15985.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15985.6	100.0

POLAR GRAPH

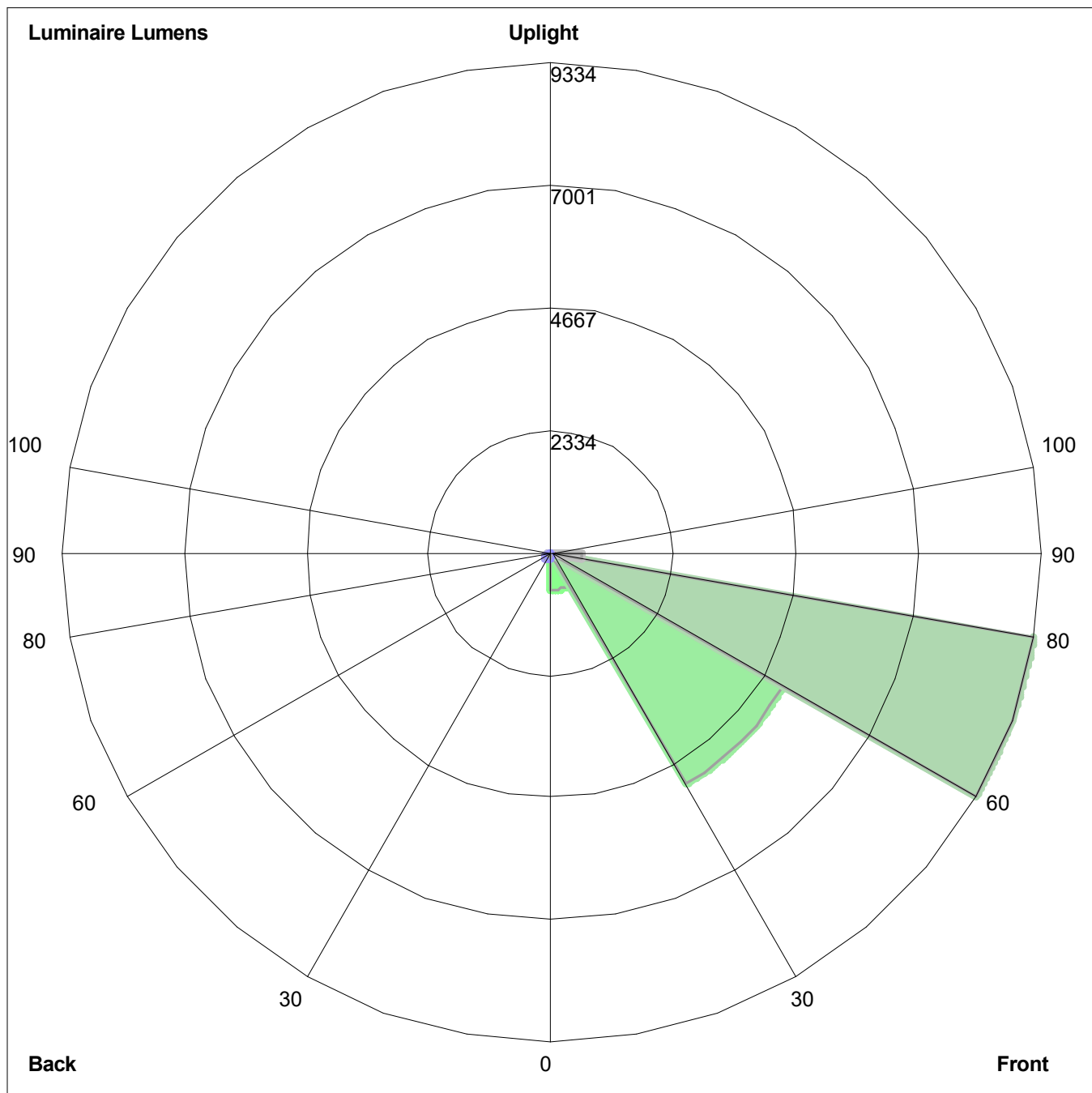


Maximum Candela = 22064 Located At Horizontal Angle = 35, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=709.3, Medium=5102.6, High=9334.4, Very High=568.0
Back: Low=91.4, Medium=133.3, High=44.5, Very High=2.2
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G4