



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11758
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/26/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-3-LED-25L-40
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25973
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23512
Maximum Candela Angle	55H 60V
Maximum Candela (<90 Degrees Vertical)	23512
Maximum Candela Angle (<90 Degrees Vertical)	55H 60V
Maximum Candela At 90 Degrees Vertical	217 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1291 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-40.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	834.0	N.A.	3.2
FM - Front-Medium (30-60)	12757.6	N.A.	49.1
FH - Front-High (60-80)	6187.5	N.A.	23.8
FVH - Front-Very High (80-90)	183.9	N.A.	0.7
BL - Back-Low (0-30)	710.0	N.A.	2.7
BM - Back-Medium (30-60)	3515.4	N.A.	13.5
BH - Back-High (60-80)	1562.5	N.A.	6.0
BVH - Back-Very High (80-90)	153.3	N.A.	0.6
UL - Uplight-Low (90-100)	21.3	N.A.	0.1
UH - Uplight-High (100-180)	47.1	N.A.	0.2
Total	25972.6	N.A.	100.0
BUG Rating	B3-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	57.5	65.0	75.0
0.0	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170
2.5	1150	1151	1148	1144	1147	1149	1159	1159	1160	1153
5.0	1144	1119	1123	1138	1130	1105	1086	1090	1088	1093
7.5	1089	1087	1105	1082	1087	1078	1090	1091	1121	1116
10.0	1078	1086	1100	1064	1094	1133	1158	1159	1158	1157
12.5	1146	1170	1148	1128	1173	1182	1218	1220	1225	1220
15.0	1212	1235	1231	1263	1306	1275	1307	1315	1317	1328
17.5	1306	1330	1316	1357	1411	1444	1423	1435	1444	1445
20.0	1508	1527	1524	1530	1569	1618	1658	1683	1626	1612
22.5	1734	1717	1795	1835	1877	1918	2022	2044	1952	1912
25.0	2138	2143	2202	2241	2325	2432	2542	2621	2514	2336
27.5	2893	3043	3055	2918	2976	3234	3289	3344	3306	3020
30.0	3808	3816	3743	3798	3926	4182	4237	4336	4273	3899
32.5	4910	5035	4729	4620	4951	5104	5390	5387	5420	4800
35.0	5968	5890	5889	5778	5788	6355	6580	6605	6452	5619
37.5	7354	7372	7084	6895	7092	7346	7618	7627	7360	6178
40.0	8748	8667	8472	8415	8156	8467	8619	8527	8098	6841
42.5	10205	10249	9945	9921	9435	9547	9454	9279	8636	7408
45.0	12036	11986	11736	11512	10860	10634	10279	10036	9277	8117
47.5	13759	13777	13771	13319	12568	11988	11313	11143	10178	9104
50.0	15466	15594	15601	15306	14434	13752	12761	12619	11666	10514
52.5	15937	15998	16751	17135	16984	15905	15089	14856	13795	12183
55.0	14754	14813	16330	17599	18786	18552	18299	17900	16610	13390
57.5	12663	12756	14289	16610	19340	20506	21629	21222	18722	13961
60.0	8387	8879	10893	14098	18517	21108	23512	23111	19469	13737
62.5	4820	5168	6764	10025	15528	19952	23271	23031	18882	12804
65.0	2626	2720	3528	5860	10948	16777	21492	21296	17139	10422
67.5	1587	1638	2014	3130	6662	11958	17690	17704	13695	7303
70.0	991	1034	1314	2092	3663	6651	12209	12354	9472	4463
72.5	744	765	947	1511	2470	3435	7074	7389	5518	2048
75.0	554	575	758	1236	1846	2025	3331	3631	2542	938
77.5	402	416	592	1068	1553	1396	1615	1732	1322	560
80.0	286	308	466	877	1291	1023	875	946	764	387
82.5	212	228	355	658	966	666	560	629	528	299
85.0	200	232	255	471	552	344	314	342	319	197
87.5	192	241	190	290	306	111	129	112	119	103
90.0	54	58	52	82	61	25	19	18	18	17
92.5	30	24	21	27	14	12	13	13	11	10
95.0	11	11	10	10	9	10	11	10	10	9
97.5	9	9	9	9	9	10	9	9	8	8
100.0	8	8	8	9	9	10	8	8	8	7
102.5	7	7	7	8	9	9	8	8	7	7
105.0	7	7	7	9	9	9	8	8	7	7
107.5	7	7	7	9	9	9	8	8	7	7
110.0	7	7	8	9	9	10	8	8	7	7
112.5	8	8	8	9	10	10	8	8	8	8
115.0	9	9	9	10	10	10	8	8	8	8
117.5	10	9	10	10	10	10	9	8	8	8
120.0	10	10	10	11	11	11	9	9	8	9
122.5	11	11	11	11	11	11	9	9	9	9
125.0	11	11	11	11	11	11	9	9	9	10
127.5	11	11	11	12	12	12	10	9	10	10
130.0	11	11	11	12	12	12	10	10	10	10

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CANDELA TABULATION - (Cont.)

132.5	11	11	11	12	11	11	10	10	10	10
135.0	9	10	9	10	10	10	9	9	9	10
137.5	4	4	5	7	8	8	7	7	7	8
140.0	2	2	4	6	6	6	6	6	6	6
142.5	1	2	4	5	6	6	6	6	5	6
145.0	1	2	4	5	6	6	5	5	5	6
147.5	1	2	4	5	6	5	5	5	5	5
150.0	1	2	4	5	5	5	5	5	5	5
152.5	1	2	3	5	5	5	5	5	5	5
155.0	1	1	3	5	5	5	4	4	5	5
157.5	1	1	3	4	4	4	4	4	4	5
160.0	1	1	3	4	4	4	4	4	4	4
162.5	1	1	3	4	4	4	3	4	3	4
165.0	1	1	3	4	4	4	4	3	3	4
167.5	1	1	3	4	4	4	4	4	4	4
170.0	1	1	3	5	5	5	4	4	4	4
172.5	1	1	3	5	5	5	4	4	4	4
175.0	1	1	3	4	5	5	4	4	4	4
177.5	1	1	3	4	5	5	4	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

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	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170
2.5	1159	1168	1168	1160	1164	1171	1176	1188	1185	1173
5.0	1100	1102	1103	1095	1128	1152	1174	1178	1178	1164
7.5	1110	1122	1128	1165	1150	1139	1119	1127	1149	1179
10.0	1148	1150	1144	1210	1136	1158	1153	1139	1133	1179
12.5	1202	1205	1229	1216	1201	1195	1187	1263	1291	1346
15.0	1281	1283	1251	1245	1239	1272	1367	1420	1446	1465
17.5	1382	1326	1320	1313	1287	1408	1520	1562	1584	1580
20.0	1531	1477	1445	1373	1364	1544	1628	1688	1751	1741
22.5	1789	1670	1596	1515	1550	1718	1768	1851	1892	1898
25.0	2142	1980	1878	1642	1775	1907	1897	1972	2093	2083
27.5	2685	2375	2196	1827	2012	2079	2060	2139	2374	2416
30.0	3317	2899	2545	1995	2178	2301	2246	2342	2653	2756
32.5	3885	3362	2849	2176	2317	2473	2418	2558	3018	3322
35.0	4433	3707	3096	2329	2408	2594	2599	2719	3391	3850
37.5	4862	4071	3287	2449	2445	2667	2686	2879	3723	4502
40.0	5309	4345	3451	2557	2444	2701	2727	2924	4169	4899
42.5	5818	4684	3642	2571	2401	2651	2710	2924	4588	4771
45.0	6493	5240	3924	2605	2333	2568	2665	2864	4660	4695
47.5	7616	6038	4347	2652	2264	2475	2587	2796	4454	4478
50.0	8801	6808	4721	2657	2174	2370	2507	2758	4085	4237
52.5	9797	7420	4943	2619	2063	2240	2417	2682	3640	3956
55.0	10198	7634	4903	2467	1930	2098	2315	2590	3197	3743
57.5	10038	7412	4502	2206	1770	1939	2177	2480	2812	3507
60.0	9580	6673	3696	1903	1631	1785	2051	2363	2485	3244
62.5	8285	5408	2685	1591	1497	1666	1907	2217	2237	2965
65.0	6075	3854	1847	1354	1371	1550	1771	2061	2087	2694
67.5	3878	2404	1325	1141	1245	1421	1614	1919	1905	2381
70.0	2068	1327	882	954	1105	1272	1450	1744	1704	2032
72.5	905	679	632	803	976	1112	1266	1544	1446	1656
75.0	536	451	526	696	856	961	1086	1182	1096	1303
77.5	350	324	432	603	716	822	863	728	689	913

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CANDELA TABULATION - (Cont.)

80.0	284	258	359	512	599	605	638	485	383	546
82.5	216	195	282	416	448	375	382	305	246	357
85.0	124	111	197	308	286	240	218	182	142	244
87.5	57	45	120	171	162	140	103	107	73	134
90.0	11	8	30	53	64	61	43	79	33	58
92.5	8	8	19	32	42	41	30	18	6	5
95.0	7	8	17	29	39	37	27	16	6	5
97.5	6	8	14	24	32	31	24	15	6	5
100.0	7	9	12	19	25	25	20	13	6	5
102.5	7	9	11	16	21	21	18	12	7	5
105.0	7	9	11	15	19	19	17	12	7	5
107.5	7	9	11	14	17	17	16	12	8	6
110.0	8	10	11	13	16	16	15	13	8	6
112.5	8	10	11	13	15	16	15	13	9	7
115.0	9	10	11	13	15	16	16	14	10	8
117.5	9	10	11	13	15	16	16	14	11	9
120.0	10	11	12	14	16	16	16	15	11	9
122.5	10	11	12	14	16	17	17	15	12	10
125.0	11	12	12	14	16	17	17	16	13	11
127.5	11	12	12	14	16	17	18	17	15	12
130.0	11	12	12	14	16	17	18	17	15	12
132.5	11	12	12	14	16	17	18	16	14	12
135.0	11	11	12	13	15	16	16	15	13	11
137.5	9	9	10	11	12	12	12	11	9	7
140.0	7	8	8	9	10	10	10	9	7	5
142.5	7	7	8	8	9	9	9	8	6	4
145.0	6	7	8	8	9	9	9	7	5	3
147.5	6	7	7	8	8	8	8	7	5	3
150.0	6	7	7	7	8	8	8	6	5	2
152.5	6	7	7	7	8	8	7	6	4	2
155.0	6	6	7	7	8	7	7	6	4	1
157.5	5	6	6	7	7	7	6	5	3	1
160.0	5	5	6	6	6	6	5	4	2	0
162.5	5	5	5	6	6	6	5	4	2	0
165.0	4	5	5	5	6	5	5	3	1	0
167.5	4	5	5	5	6	5	5	3	2	0
170.0	4	5	5	5	5	5	5	3	2	0
172.5	4	5	5	5	5	5	4	3	2	0
175.0	4	5	5	5	5	5	4	3	2	0
177.5	4	4	5	5	5	4	4	3	2	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	175.0	180.0
0.0	1170	1170
2.5	1176	1179
5.0	1159	1164
7.5	1172	1161
10.0	1213	1212
12.5	1372	1365
15.0	1515	1515
17.5	1606	1633
20.0	1769	1766
22.5	1863	1864
25.0	2044	2034

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CANDELA TABULATION - (Cont.)

27.5	2305	2263
30.0	2649	2616
32.5	3263	3188
35.0	3700	3662
37.5	3977	3828
40.0	3785	3604
42.5	3496	3257
45.0	3180	2956
47.5	2984	2768
50.0	2876	2661
52.5	2837	2610
55.0	2875	2605
57.5	2942	2635
60.0	3034	2694
62.5	3129	2822
65.0	3169	2976
67.5	3106	3061
70.0	2850	2992
72.5	2315	2560
75.0	1554	1805
77.5	1129	1258
80.0	818	881
82.5	601	618
85.0	490	526
87.5	639	770
90.0	217	197
92.5	1	0
95.0	1	0
97.5	1	0
100.0	1	0
102.5	1	0
105.0	2	1
107.5	2	2
110.0	3	2
112.5	4	3
115.0	5	4
117.5	5	5
120.0	6	6
122.5	7	7
125.0	8	8
127.5	9	9
130.0	9	9
132.5	9	9
135.0	8	8
137.5	4	4
140.0	2	1
142.5	1	0
145.0	1	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

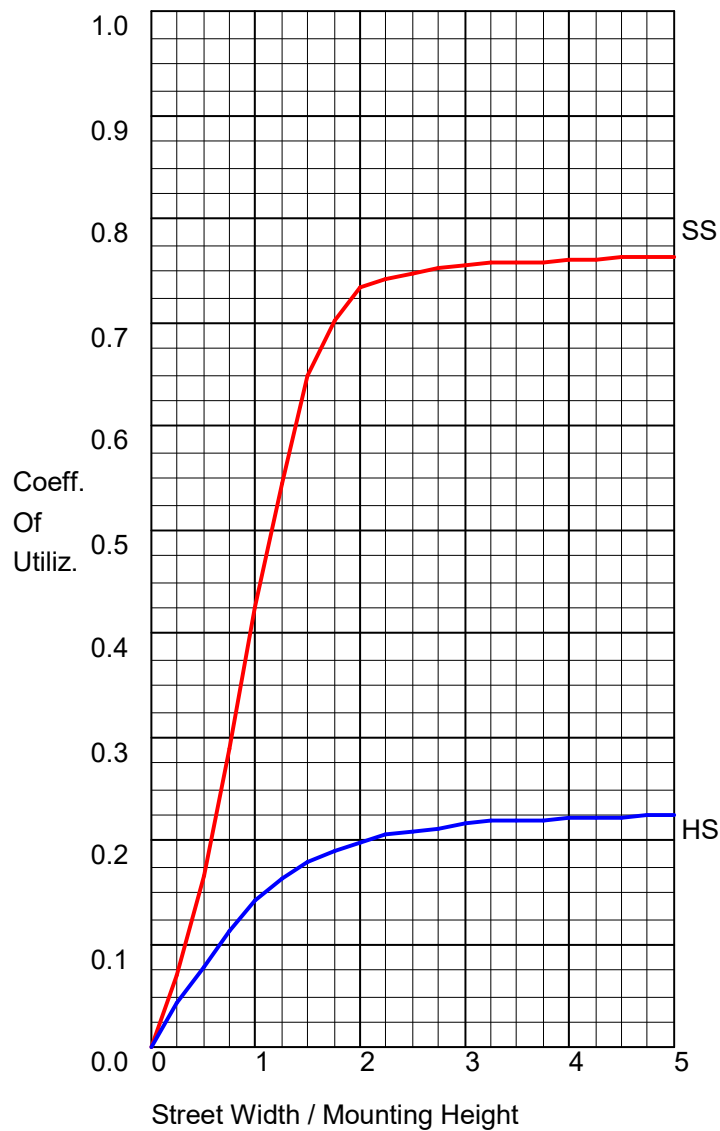
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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	3	3

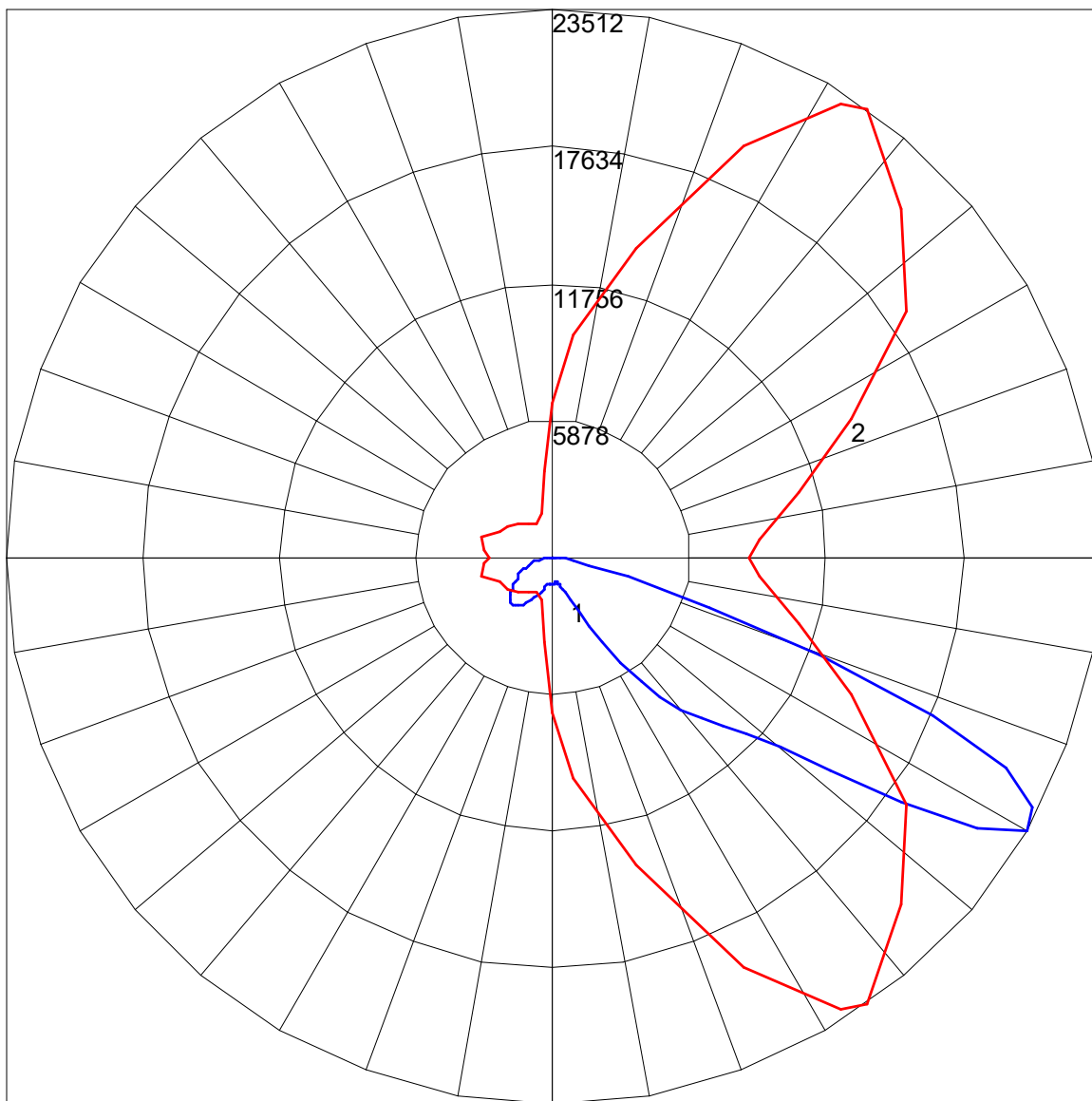
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

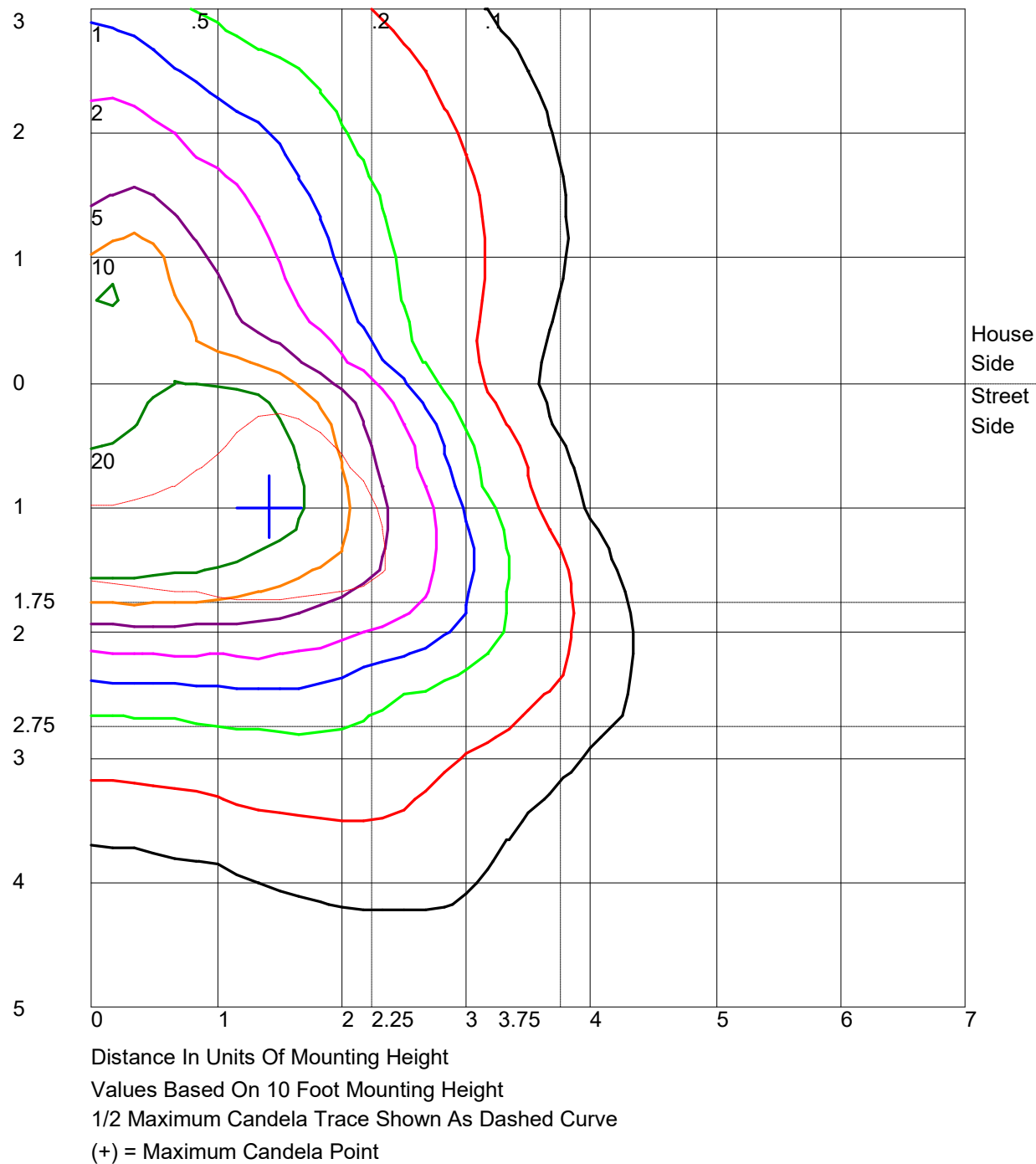
	Lumens	Percent Of Luminaire
Downward Street Side	19963.1	76.9
Downward House Side	5941.2	22.9
Downward Total	25904.3	99.7
Upward Street Side	27.9	0.1
Upward House Side	40.6	0.2
Upward Total	68.5	0.3
Total Flux	25972.8	100.0

POLAR GRAPH

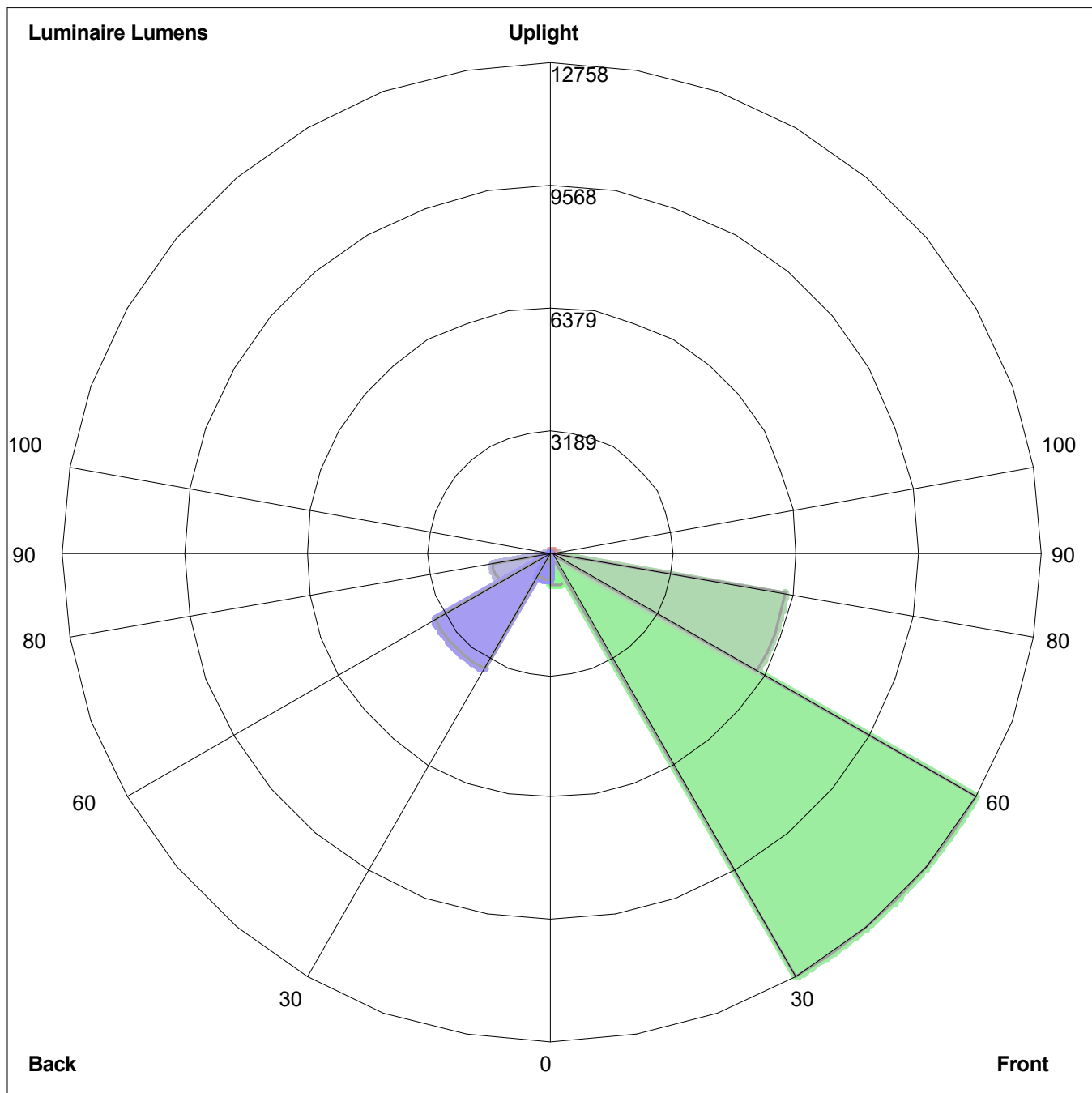


Maximum Candela = 23512 Located At Horizontal Angle = 55, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=834.0, Medium=12757.6, High=6187.5, Very High=183.9
Back: Low=710.0, Medium=3515.4, High=1562.5, Very High=153.3
Uplight: Low=21.3, High=47.1

BUG Rating : B3-U2-G3