



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-05L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11771

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-2-LED-05L-30

[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	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4563
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3602
Maximum Candela Angle	77.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	3602
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 67.5V
Maximum Candela At 90 Degrees Vertical	5 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	316 (6.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-05L-30.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	240.3	N.A.	5.3
FM - Front-Medium (30-60)	1691.0	N.A.	37.1
FH - Front-High (60-80)	1020.9	N.A.	22.4
FVH - Front-Very High (80-90)	22.6	N.A.	0.5
BL - Back-Low (0-30)	200.7	N.A.	4.4
BM - Back-Medium (30-60)	997.1	N.A.	21.9
BH - Back-High (60-80)	358.7	N.A.	7.9
BVH - Back-Very High (80-90)	27.3	N.A.	0.6
UL - Uplight-Low (90-100)	1.5	N.A.	0.0
UH - Uplight-High (100-180)	2.7	N.A.	0.1
Total	4562.8	N.A.	100.0
BUG Rating	B1-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	77.5
0.0	381	381	381	381	381	381	381	381	381	381
2.5	383	382	382	384	385	385	384	385	379	376
5.0	384	376	392	393	385	379	377	361	355	353
7.5	384	388	393	386	385	379	386	385	382	379
10.0	393	395	408	387	398	404	411	409	396	392
12.5	439	447	438	417	431	430	442	433	432	430
15.0	452	467	463	471	488	466	474	471	479	470
17.5	467	481	473	490	509	526	512	519	525	522
20.0	521	531	524	522	542	557	581	574	576	583
22.5	546	546	555	578	587	601	644	635	643	644
25.0	579	566	583	612	633	649	696	718	710	711
27.5	618	646	655	651	668	717	753	795	800	806
30.0	679	676	674	701	726	782	816	880	909	890
32.5	789	804	758	744	795	829	902	986	1013	1005
35.0	903	885	876	859	854	925	982	1066	1126	1141
37.5	1083	1070	1004	965	982	1012	1075	1161	1223	1235
40.0	1211	1212	1171	1153	1095	1129	1170	1243	1340	1355
42.5	1354	1363	1326	1321	1280	1253	1285	1328	1425	1440
45.0	1475	1485	1465	1437	1436	1418	1413	1414	1536	1539
47.5	1543	1555	1556	1540	1574	1597	1577	1524	1646	1663
50.0	1551	1564	1585	1598	1679	1791	1792	1671	1775	1805
52.5	1483	1496	1539	1571	1712	1953	2044	1879	1938	1981
55.0	1321	1320	1384	1447	1651	2020	2313	2158	2126	2192
57.5	1051	1070	1132	1210	1469	1952	2569	2507	2370	2467
60.0	779	793	843	912	1151	1718	2736	2858	2684	2802
62.5	545	553	579	625	792	1317	2713	3137	3044	3189
65.0	382	382	390	412	508	840	2386	3196	3377	3521
67.5	270	273	279	284	336	500	1767	2983	3474	3602
70.0	190	194	200	205	247	328	1112	2453	3127	3189
72.5	110	114	119	143	179	233	633	1694	2194	2141
75.0	61	63	62	80	117	172	352	1004	1084	922
77.5	44	52	43	51	67	110	202	569	493	401
80.0	42	46	37	37	45	73	105	316	257	202
82.5	41	43	32	26	30	51	54	153	135	109
85.0	34	33	24	17	17	31	33	42	59	52
87.5	19	18	14	9	8	13	13	12	14	14
90.0	5	5	4	3	1	1	1	1	1	1
92.5	2	2	2	1	0	0	0	1	1	1
95.0	2	2	1	1	0	0	0	0	0	1
97.5	2	2	1	1	0	0	0	0	0	0
100.0	1	1	1	1	0	0	0	0	0	0
102.5	1	1	1	1	0	0	0	0	0	0
105.0	1	1	1	1	0	0	0	0	0	0
107.5	1	1	1	1	0	0	0	0	0	0
110.0	1	1	1	1	0	0	0	0	0	0
112.5	2	2	1	1	0	0	0	0	0	0
115.0	2	2	2	1	1	0	0	0	0	0
117.5	2	2	2	1	1	0	0	0	0	0
120.0	2	2	2	1	1	0	0	0	0	0
122.5	2	2	2	2	1	0	0	0	0	0
125.0	2	2	2	2	1	1	0	0	0	0
127.5	2	2	2	2	1	1	0	0	0	0
130.0	3	3	2	2	2	1	0	0	1	1

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CANDELA TABULATION - (Cont.)

132.5	3	3	2	2	1	1	0	0	1	1
135.0	2	2	2	2	1	1	0	0	0	1
137.5	2	1	1	1	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	1	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	1	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	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. 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	381	381	381	381	381	381	381	381	381	381
2.5	378	376	378	379	384	379	376	371	371	377
5.0	366	362	357	346	353	358	355	349	347	341
7.5	365	359	366	367	362	345	325	318	327	319
10.0	379	379	375	379	345	339	324	309	299	303
12.5	411	406	402	391	363	338	315	321	323	332
15.0	442	449	427	400	360	340	350	350	351	352
17.5	498	476	466	429	371	365	383	382	379	390
20.0	556	545	515	458	388	406	405	418	431	448
22.5	643	604	580	508	445	449	444	461	483	503
25.0	708	687	665	548	512	490	495	518	548	567
27.5	807	756	740	605	581	538	558	583	637	663
30.0	890	848	820	665	637	611	623	662	699	737
32.5	982	952	897	752	693	687	709	738	791	849
35.0	1101	1051	1000	827	760	760	799	805	861	903
37.5	1221	1184	1097	918	829	830	865	891	907	974
40.0	1334	1280	1178	981	886	889	913	928	935	975
42.5	1419	1381	1249	1012	928	922	930	938	905	920
45.0	1531	1494	1324	1043	951	929	920	899	834	836
47.5	1674	1631	1406	1072	960	909	875	829	745	730
50.0	1841	1755	1493	1094	954	870	813	749	658	633
52.5	2033	1899	1572	1107	937	823	737	667	582	554
55.0	2260	2067	1647	1111	910	764	671	604	521	494
57.5	2525	2241	1704	1105	877	705	611	553	455	437
60.0	2809	2397	1729	1070	817	637	555	494	395	375
62.5	3051	2461	1666	987	737	562	489	427	327	303
65.0	3147	2353	1471	840	624	465	408	347	257	227
67.5	2893	1981	1124	652	491	364	314	262	189	170
70.0	2219	1328	727	456	365	271	241	195	150	137
72.5	1153	644	420	309	268	205	181	154	116	97
75.0	439	294	266	209	196	163	147	111	75	65
77.5	187	158	172	157	150	133	103	77	61	57

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CANDELA TABULATION - (Cont.)

80.0	113	95	106	122	119	97	71	63	67	74
82.5	69	53	56	96	89	60	56	65	100	99
85.0	33	25	30	63	37	42	47	64	91	70
87.5	11	6	10	13	15	17	17	18	26	14
90.0	1	1	2	3	5	5	5	3	1	1
92.5	1	1	1	3	4	5	5	3	0	0
95.0	0	1	1	2	4	5	4	2	0	0
97.5	0	1	1	2	3	4	3	1	0	0
100.0	0	1	1	1	2	2	2	1	0	0
102.5	0	0	1	1	2	2	1	1	0	0
105.0	0	1	1	1	1	1	1	1	0	0
107.5	0	0	1	1	1	1	1	1	0	0
110.0	0	1	1	1	1	1	1	1	0	0
112.5	0	1	1	1	1	1	1	1	0	0
115.0	0	1	1	1	1	1	1	1	0	0
117.5	0	1	1	1	1	1	1	1	1	0
120.0	0	1	1	1	1	1	1	1	1	1
122.5	1	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	1	1	1
130.0	1	1	1	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	1
137.5	0	0	1	1	1	1	1	1	1	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	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	381	381
2.5	375	370
5.0	344	342
7.5	325	317
10.0	304	309
12.5	329	334
15.0	362	373
17.5	398	416
20.0	460	468
22.5	509	528
25.0	593	616

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CANDELA TABULATION - (Cont.)

27.5	679	705
30.0	765	804
32.5	874	904
35.0	937	976
37.5	1004	1048
40.0	985	1026
42.5	918	958
45.0	824	862
47.5	720	755
50.0	625	655
52.5	553	578
55.0	489	512
57.5	429	452
60.0	361	373
62.5	282	292
65.0	209	216
67.5	168	174
70.0	139	144
72.5	101	107
75.0	78	88
77.5	71	81
80.0	92	104
82.5	110	118
85.0	74	76
87.5	5	10
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	0	0
125.0	0	0
127.5	0	0
130.0	0	1
132.5	1	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
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

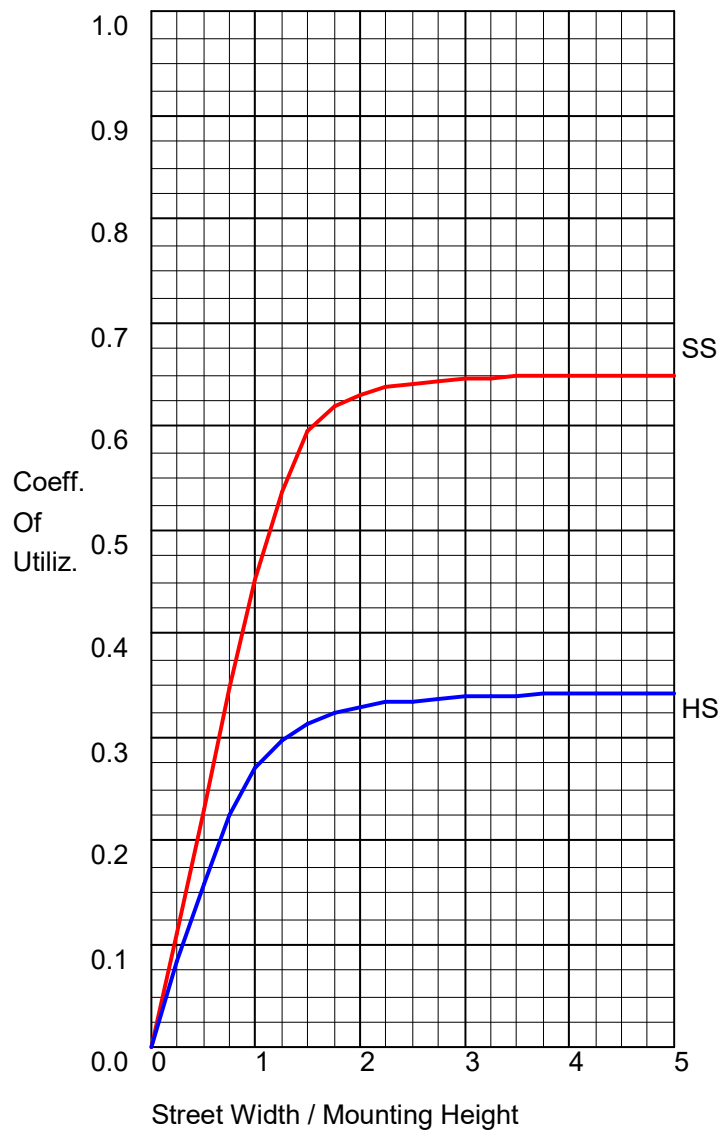
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CANDELA TABULATION - (Cont.)

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

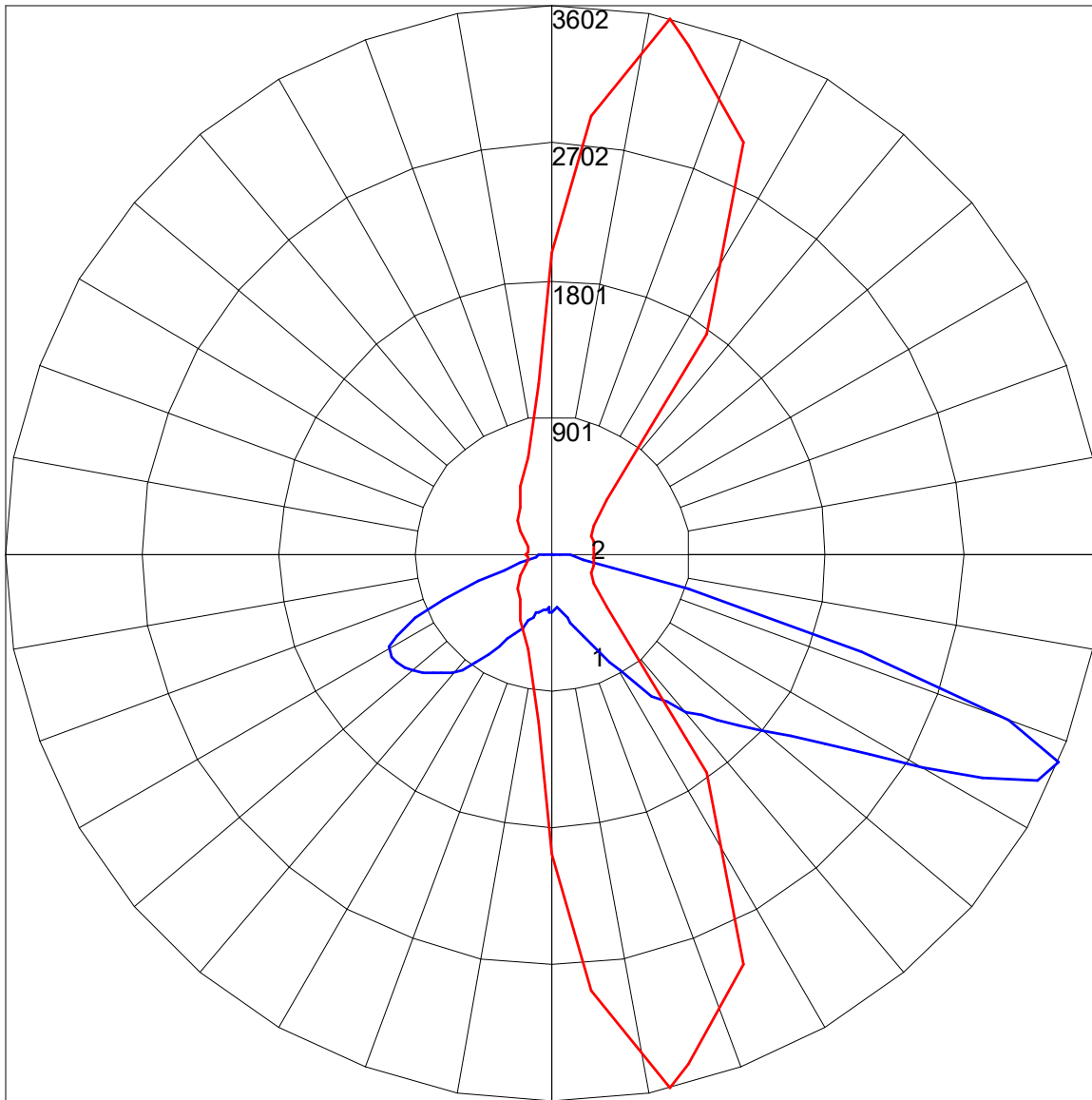
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	2974.9	65.2
Downward House Side	1583.7	34.7
Downward Total	4558.6	99.9
Upward Street Side	1.7	0.0
Upward House Side	2.5	0.1
Upward Total	4.2	0.1
Total Flux	4562.8	100.0

POLAR GRAPH

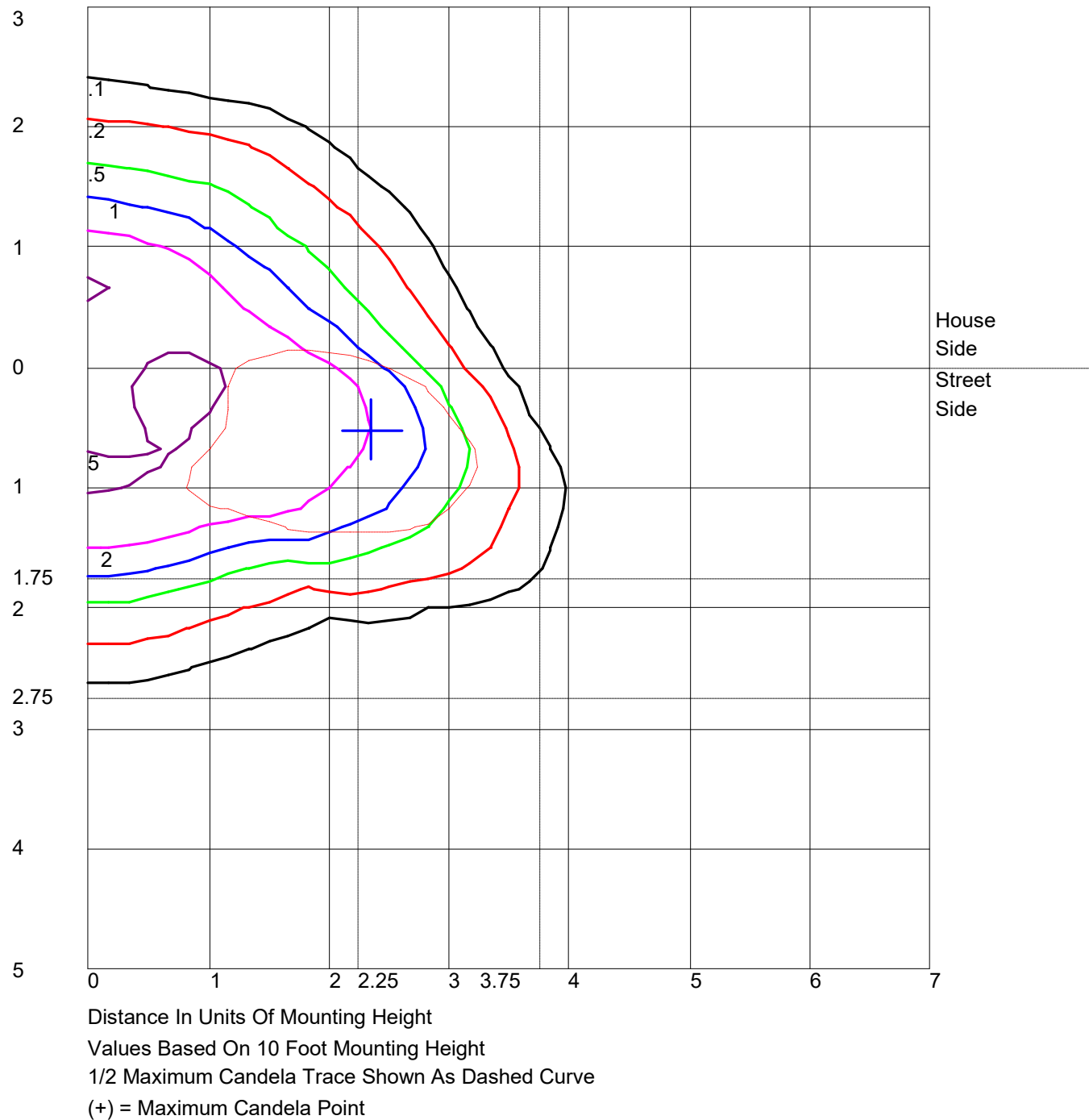


Maximum Candela = 3602 Located At Horizontal Angle = 77.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

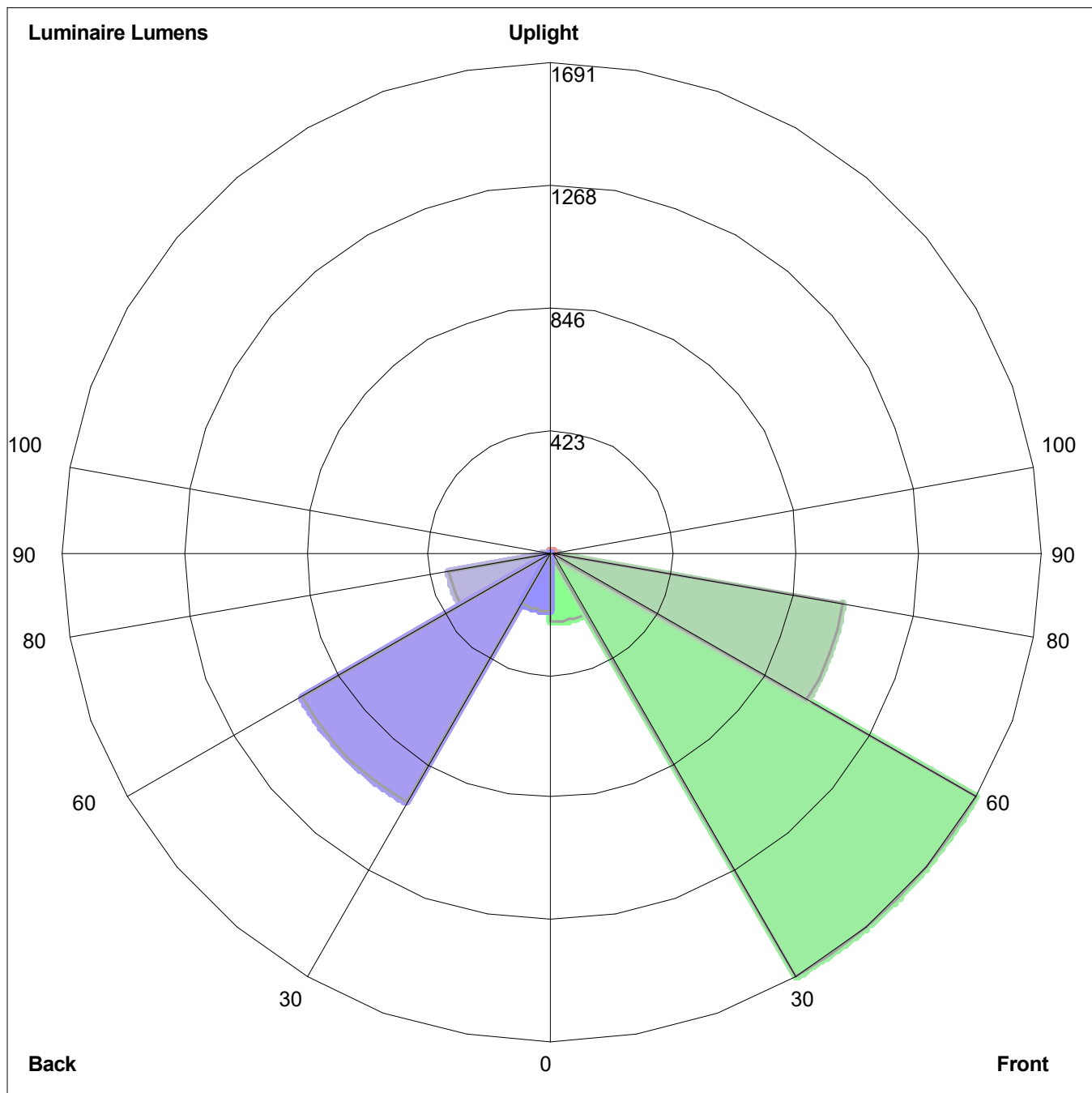
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=240.3, Medium= 1691.0, High=1020.9, Very High=22.6
Back: Low=200.7, Medium=997.1, High=358.7, Very High=27.3
Uplight: Low=1.5, High=2.7

BUG Rating : B1-U1-G1