



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-FT-LED-HO-NW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5342A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XGBM-FT-LED-HO-NW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]Tested with new Flat Black HSS Shield
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17192
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	288.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13232
Maximum Candela Angle	15H 65V
Maximum Candela (<90 Degrees Vertical)	13232
Maximum Candela Angle (<90 Degrees Vertical)	15H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3738 (21.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1637.4	N.A.	9.5
FM - Front-Medium (30-60)	7294.6	N.A.	42.4
FH - Front-High (60-80)	7032.8	N.A.	40.9
FVH - Front-Very High (80-90)	409.7	N.A.	2.4
BL - Back-Low (0-30)	284.1	N.A.	1.7
BM - Back-Medium (30-60)	400.6	N.A.	2.3
BH - Back-High (60-80)	123.3	N.A.	0.7
BVH - Back-Very High (80-90)	9.0	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	17191.5	N.A.	100.0
BUG Rating	B1-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>17.5</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	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040
2.5	1107	1113	1110	1104	1103	1087	1071	1061	1048	1038
5.0	1366	1387	1348	1323	1312	1246	1185	1139	1096	1063
7.5	2240	2278	2128	2109	1974	1719	1500	1330	1196	1116
10.0	3519	3561	3449	3360	3166	2746	2249	1718	1384	1191
12.5	4668	4716	4581	4485	4264	3848	3287	2446	1704	1312
15.0	5336	5400	5353	5307	5198	4839	4197	3330	2204	1505
17.5	5344	5408	5472	5487	5546	5451	5040	4118	2914	1764
20.0	5091	5152	5232	5256	5377	5555	5551	4908	3620	2050
22.5	5170	5234	5334	5347	5241	5321	5692	5506	4273	2459
25.0	4897	4941	5063	5072	5122	5351	5538	5866	4967	2931
27.5	4343	4430	4590	4663	4866	5252	5508	6031	5579	3363
30.0	4177	4223	4259	4276	4413	5051	5718	5963	6031	3804
32.5	4605	4572	4333	4266	4315	4708	5609	5929	6209	4235
35.0	4901	4944	4888	4850	4809	4665	5198	5993	6128	4439
37.5	5355	5385	5208	5173	5216	5158	4829	5685	5746	4688
40.0	6315	6335	6008	5923	5741	5606	4776	5160	5495	5038
42.5	7606	7632	7305	7093	6835	5996	5339	4686	5499	5313
45.0	8700	8724	8492	8428	8325	6935	5576	4523	5149	5309
47.5	9495	9553	9469	9540	9594	8348	6056	4731	4731	5156
50.0	10401	10498	10600	10684	10669	9473	6955	5024	4256	4950
52.5	10358	10452	11112	11431	11706	10235	8107	5204	3958	4644
55.0	10328	10459	11081	11304	11735	11002	8758	5762	3943	4451
57.5	10400	10487	11160	11475	11634	10980	9077	6629	4164	4044
60.0	10646	10746	11646	11916	11756	10813	9508	7204	4098	3525
62.5	11318	11396	12379	12496	12008	10818	9323	7324	4247	3023
65.0	11988	12109	13232	13206	12599	11046	9152	7384	4572	2633
67.5	11724	11856	12964	13010	13011	11640	8988	6857	4860	2486
70.0	11197	11373	12109	12073	12262	11759	8982	6508	4990	2442
72.5	9262	9310	10152	10334	11418	10741	8908	6395	4678	2434
75.0	6009	6286	6831	7308	8577	9083	8072	6225	4223	2368
77.5	3908	4071	4305	4449	5116	6033	6242	5292	3789	2267
80.0	1723	1741	1981	2103	2782	3363	3302	3738	3231	1881
82.5	814	817	904	918	1072	1211	1373	1710	1959	1297
85.0	236	236	251	258	263	334	442	478	624	712
87.5	214	216	237	242	244	229	199	157	129	133
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	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. 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	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040
2.5	1029	1026	1023	1017	1012	1009	1007	1003	1003	1001
5.0	1041	1032	1021	988	957	939	929	924	923	922
7.5	1064	1049	1026	965	927	909	895	864	840	826
10.0	1096	1073	1038	955	919	872	824	796	754	717
12.5	1149	1116	1062	961	903	827	760	686	649	628
15.0	1240	1183	1110	995	880	781	672	624	571	533
17.5	1332	1258	1167	1027	886	714	624	541	481	447
20.0	1397	1298	1191	1023	851	690	559	473	408	370
22.5	1456	1327	1192	1000	796	646	507	406	353	325
25.0	1487	1333	1189	992	769	587	436	353	319	296
27.5	1533	1349	1195	996	737	536	392	323	293	274
30.0	1579	1367	1219	957	701	474	364	302	263	237
32.5	1613	1358	1213	918	664	442	346	279	240	235
35.0	1590	1289	1144	862	610	419	331	256	240	240
37.5	1557	1218	1069	808	528	399	295	261	236	180
40.0	1619	1220	1034	740	474	379	295	267	157	123
42.5	1739	1243	1028	674	441	320	303	197	126	121
45.0	1852	1258	1033	624	424	275	280	143	125	106
47.5	1994	1259	1038	585	397	265	182	137	106	93
50.0	2164	1286	1038	543	367	263	151	115	94	81
52.5	2326	1338	1045	493	313	196	132	97	78	58
55.0	2406	1333	1020	455	297	148	107	77	55	47
57.5	2409	1278	969	424	295	143	89	54	43	34
60.0	2373	1211	909	388	216	125	69	42	34	25
62.5	2409	1150	828	360	167	110	54	33	23	17
65.0	2369	1072	759	308	162	85	42	24	15	1
67.5	2278	1052	691	277	143	63	31	15	0	0
70.0	1979	931	597	212	115	46	22	4	0	0
72.5	1717	810	488	167	81	32	10	3	0	0
75.0	1340	689	379	170	58	16	9	3	0	0
77.5	1128	514	264	137	40	14	8	3	0	0

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CANDELA TABULATION - (Cont.)

80.0	725	353	187	98	25	13	7	3	0	0
82.5	391	205	95	57	16	12	7	3	0	0
85.0	245	87	55	21	14	11	7	4	1	0
87.5	96	18	18	14	13	11	7	4	2	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	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

	<u>175.0</u>	<u>180.0</u>
0.0	1040	1040
2.5	1003	1005
5.0	922	923
7.5	823	825
10.0	706	706
12.5	615	621
15.0	512	516
17.5	426	419
20.0	353	350
22.5	308	307
25.0	283	283

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CANDELA TABULATION - (Cont.)

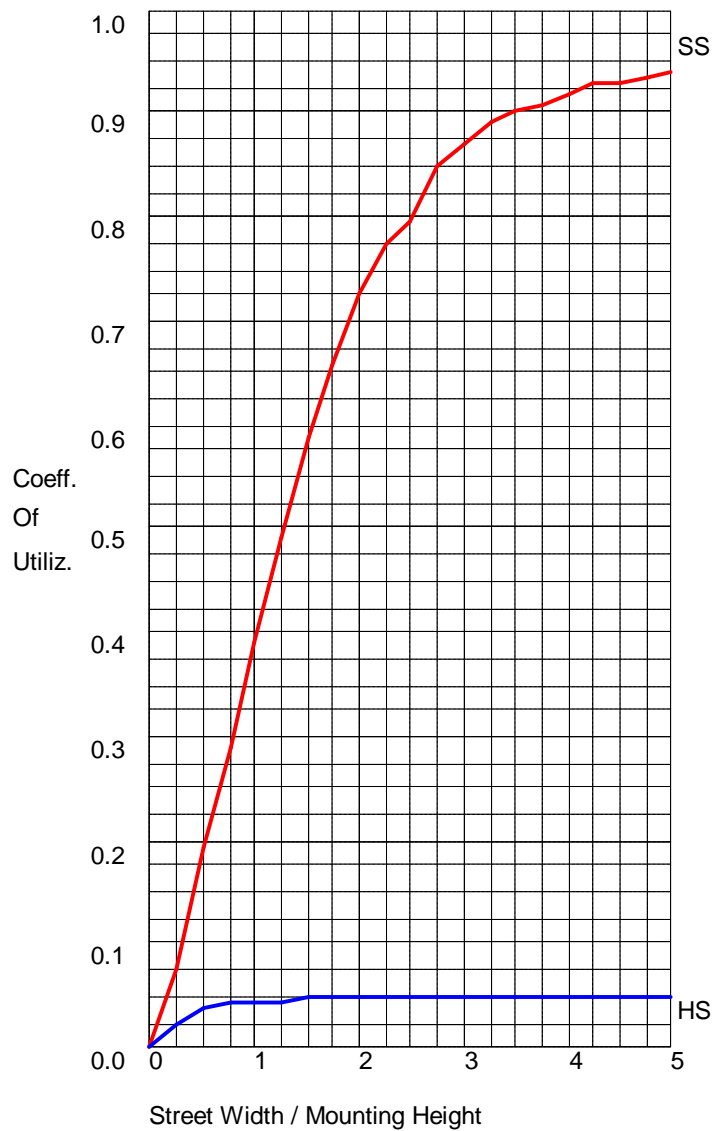
27.5	261	259
30.0	231	231
32.5	232	233
35.0	226	224
37.5	142	138
40.0	113	111
42.5	110	108
45.0	91	90
47.5	80	77
50.0	66	62
52.5	49	46
55.0	38	36
57.5	30	29
60.0	20	20
62.5	14	14
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	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	0
132.5	0	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

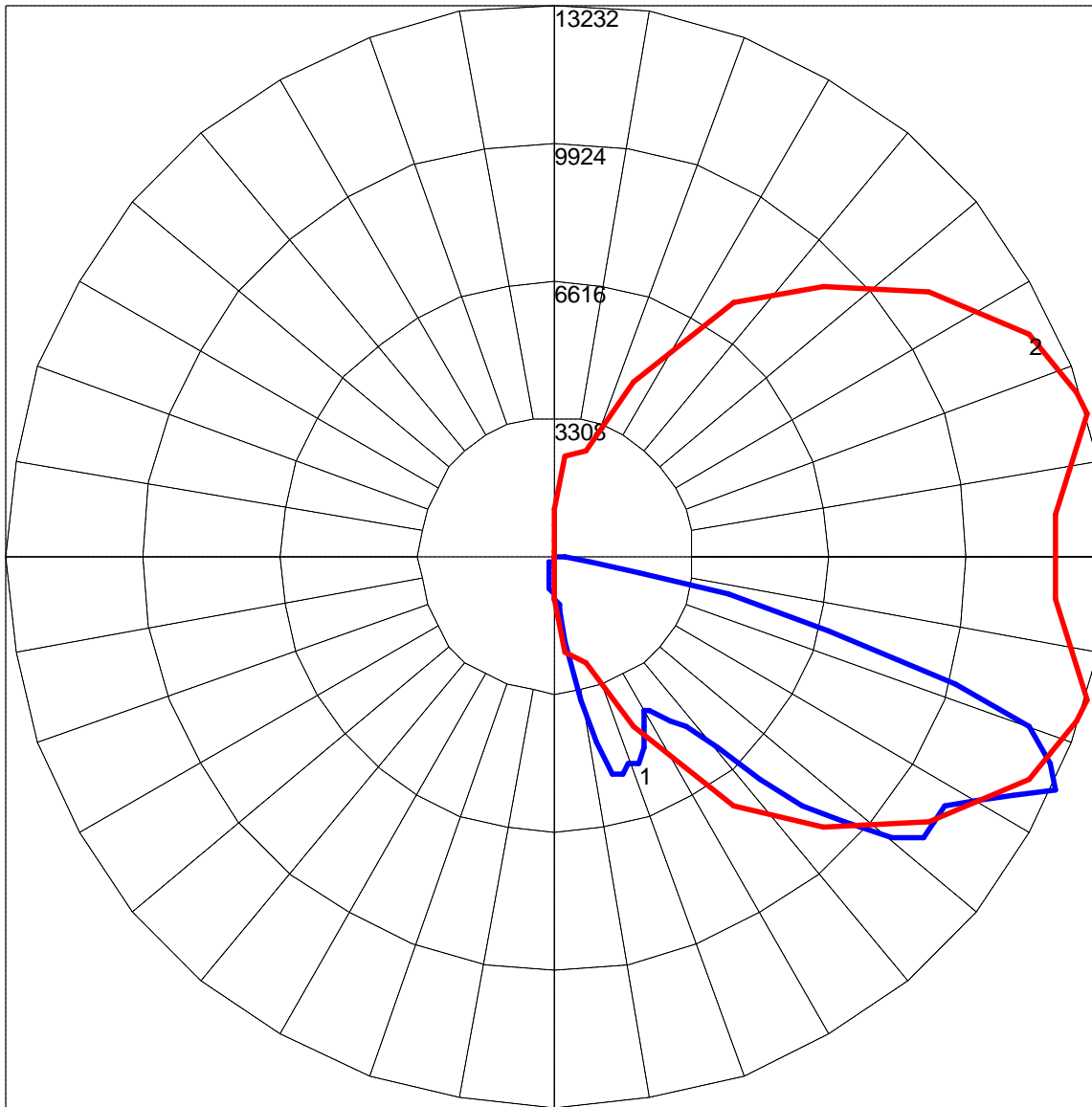
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

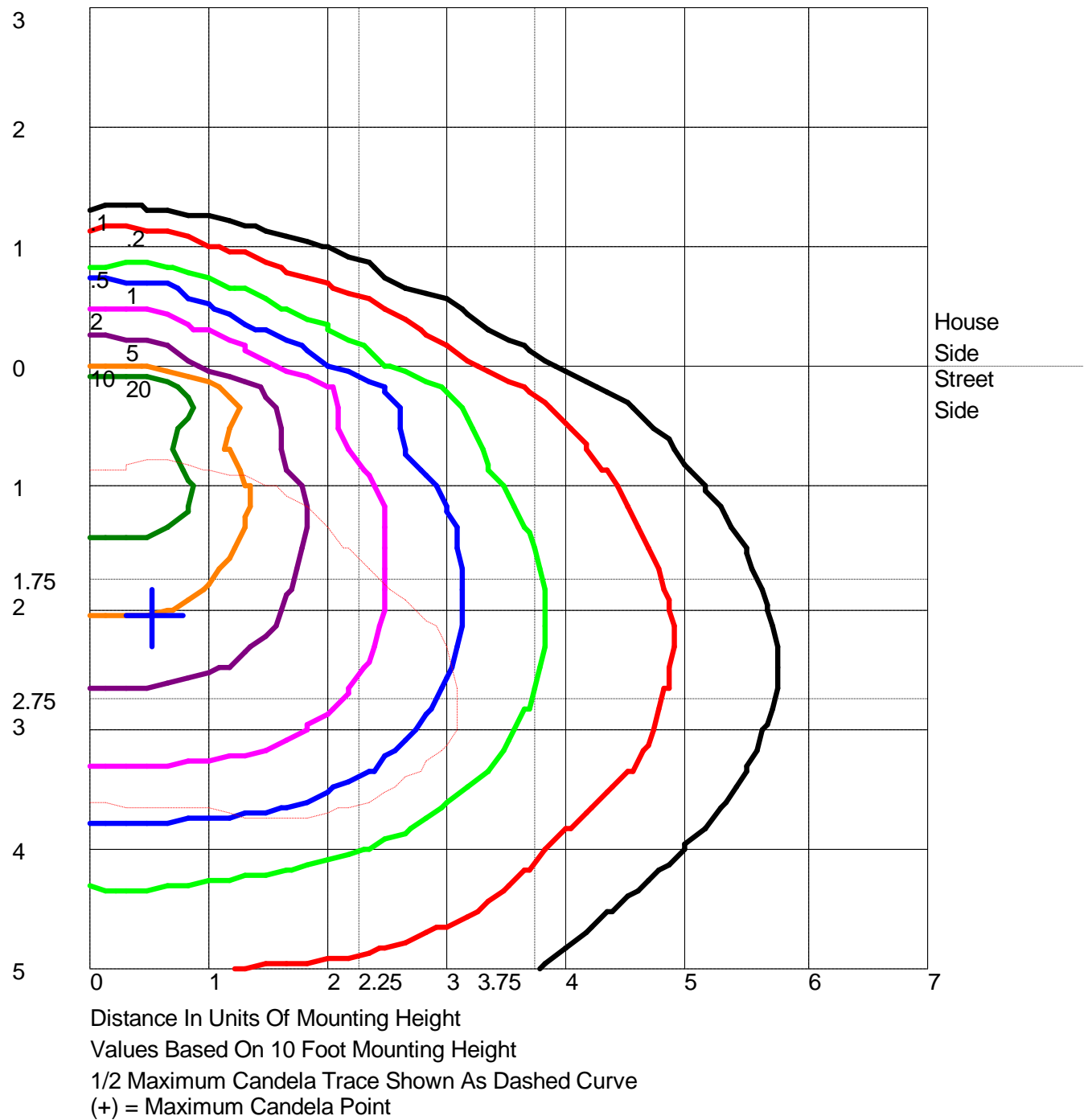
	Lumens	Percent Of Luminaire
Downward Street Side	16374.5	95.2
Downward House Side	817.0	4.8
Downward Total	17191.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17191.5	100.0

POLAR GRAPH

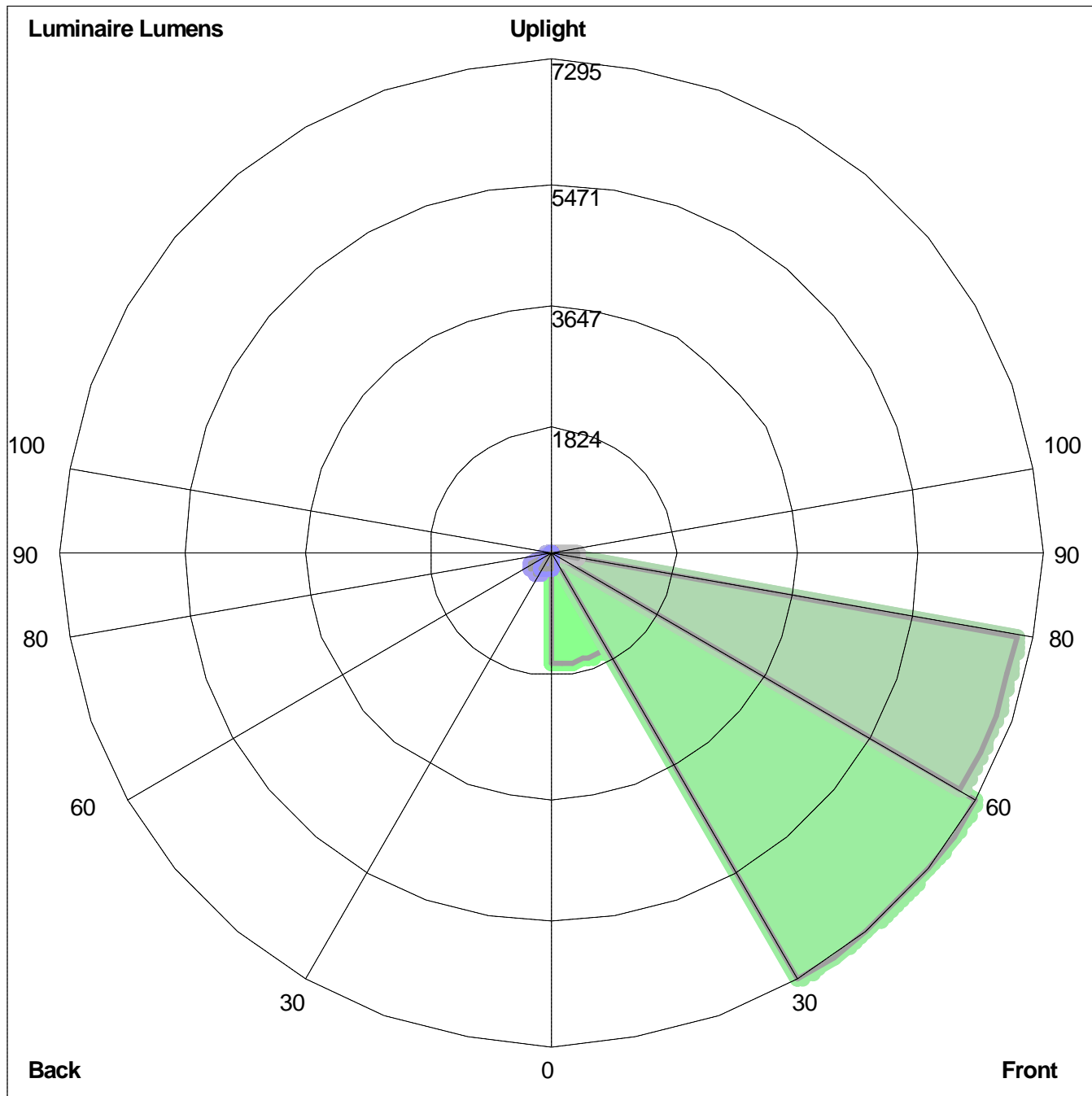


Maximum Candela = 13232 Located At Horizontal Angle = 15, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1637.4, Medium=7294.6, High=7032.8, Very High=409.7
Back: Low=284.1, Medium=400.6, High=123.3, Very High=9.0
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3