



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-30.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-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23614
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21377
Maximum Candela Angle	55H 60V
Maximum Candela (<90 Degrees Vertical)	21377
Maximum Candela Angle (<90 Degrees Vertical)	55H 60V
Maximum Candela At 90 Degrees Vertical	197 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1174 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-30.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	758.3	N.A.	3.2
FM - Front-Medium (30-60)	11599.2	N.A.	49.1
FH - Front-High (60-80)	5625.7	N.A.	23.8
FVH - Front-Very High (80-90)	167.2	N.A.	0.7
BL - Back-Low (0-30)	645.5	N.A.	2.7
BM - Back-Medium (30-60)	3196.2	N.A.	13.5
BH - Back-High (60-80)	1420.6	N.A.	6.0
BVH - Back-Very High (80-90)	139.3	N.A.	0.6
UL - Uplight-Low (90-100)	19.3	N.A.	0.1
UH - Uplight-High (100-180)	42.8	N.A.	0.2
Total	23614.1	N.A.	100.0
BUG Rating	B3-U2-G3		

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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>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064
2.5	1046	1046	1044	1040	1043	1045	1054	1054	1055	1048
5.0	1040	1017	1021	1035	1027	1005	987	991	989	994
7.5	990	988	1005	984	988	980	991	992	1019	1015
10.0	980	987	1000	967	995	1030	1053	1054	1053	1052
12.5	1042	1064	1044	1026	1066	1075	1107	1109	1114	1109
15.0	1102	1123	1119	1148	1187	1159	1188	1196	1197	1207
17.5	1187	1209	1197	1234	1283	1313	1294	1305	1313	1314
20.0	1371	1388	1386	1391	1427	1471	1507	1530	1478	1466
22.5	1577	1561	1632	1668	1707	1744	1838	1858	1775	1738
25.0	1944	1948	2002	2038	2114	2211	2311	2383	2286	2124
27.5	2630	2767	2778	2653	2706	2940	2990	3040	3006	2746
30.0	3462	3470	3403	3453	3570	3802	3852	3942	3885	3545
32.5	4464	4578	4300	4201	4501	4641	4901	4898	4928	4364
35.0	5426	5355	5354	5253	5262	5778	5983	6005	5866	5109
37.5	6686	6703	6441	6269	6448	6679	6926	6934	6692	5617
40.0	7954	7880	7703	7651	7415	7698	7836	7753	7363	6220
42.5	9278	9318	9042	9020	8578	8680	8596	8436	7852	6735
45.0	10943	10898	10670	10467	9874	9668	9346	9125	8435	7380
47.5	12510	12526	12521	12110	11427	10899	10286	10131	9254	8277
50.0	14062	14178	14184	13916	13123	12503	11602	11473	10607	9559
52.5	14490	14545	15230	15579	15442	14461	13719	13507	12542	11077
55.0	13414	13468	14847	16001	17080	16867	16637	16275	15102	12174
57.5	11513	11598	12992	15102	17584	18644	19665	19295	17022	12693
60.0	7625	8073	9904	12818	16836	19191	21377	21013	17701	12490
62.5	4382	4699	6150	9115	14118	18140	21158	20940	17168	11641
65.0	2388	2473	3208	5328	9954	15254	19541	19362	15583	9476
67.5	1443	1489	1831	2846	6057	10872	16084	16096	12451	6640
70.0	901	940	1195	1902	3330	6047	11100	11232	8612	4058
72.5	676	696	861	1374	2246	3123	6432	6718	5017	1862
75.0	504	523	689	1124	1678	1841	3029	3301	2311	853
77.5	365	378	538	971	1412	1269	1468	1575	1202	509
80.0	260	280	424	797	1174	930	796	860	695	352
82.5	193	207	323	598	878	606	509	572	480	272
85.0	182	211	232	428	502	313	285	311	290	179
87.5	175	219	173	264	278	101	117	102	108	94
90.0	49	53	47	75	55	23	17	16	16	15
92.5	27	22	19	25	13	11	12	12	10	9
95.0	10	10	9	9	8	9	10	9	9	8
97.5	8	8	8	8	8	9	8	8	7	7
100.0	7	7	7	8	8	9	7	7	7	6
102.5	6	6	6	7	8	8	7	7	6	6
105.0	6	6	6	8	8	8	7	7	6	6
107.5	6	6	6	8	8	8	7	7	6	6
110.0	6	6	7	8	8	9	7	7	6	6
112.5	7	7	7	8	9	9	7	7	7	7
115.0	8	8	8	9	9	9	7	7	7	7
117.5	9	8	9	9	9	9	8	7	7	7
120.0	9	9	9	10	10	10	8	8	7	8
122.5	10	10	10	10	10	10	8	8	8	8
125.0	10	10	10	10	10	10	8	8	8	9
127.5	10	10	10	11	11	11	9	8	9	9
130.0	10	10	10	11	11	11	9	9	9	9

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

132.5	10	10	10	11	10	10	9	9	9	9
135.0	8	9	8	9	9	9	8	8	8	9
137.5	4	4	5	6	7	7	6	6	6	7
140.0	2	2	4	5	5	5	5	5	5	5
142.5	1	2	4	5	5	5	5	5	5	5
145.0	1	2	4	5	5	5	5	5	5	5
147.5	1	2	4	5	5	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	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064
2.5	1054	1062	1062	1055	1058	1065	1069	1080	1077	1066
5.0	1000	1002	1003	996	1026	1047	1067	1071	1071	1058
7.5	1009	1020	1026	1059	1046	1036	1017	1025	1045	1072
10.0	1044	1046	1040	1100	1033	1053	1048	1036	1030	1072
12.5	1093	1096	1117	1106	1092	1086	1079	1148	1174	1224
15.0	1165	1167	1137	1132	1126	1157	1243	1291	1315	1332
17.5	1257	1206	1200	1194	1170	1280	1382	1420	1440	1437
20.0	1392	1343	1314	1248	1240	1404	1480	1535	1592	1583
22.5	1627	1518	1451	1377	1409	1562	1607	1683	1720	1726
25.0	1948	1800	1707	1493	1614	1734	1725	1793	1903	1894
27.5	2441	2159	1997	1661	1829	1890	1873	1945	2158	2197
30.0	3016	2636	2314	1814	1980	2092	2042	2129	2412	2506
32.5	3532	3057	2590	1978	2107	2248	2198	2326	2744	3020
35.0	4030	3370	2815	2118	2189	2358	2363	2472	3083	3500
37.5	4421	3701	2989	2227	2223	2425	2442	2618	3385	4093
40.0	4827	3950	3138	2325	2222	2456	2479	2659	3790	4454
42.5	5290	4259	3311	2338	2183	2410	2464	2659	4171	4338
45.0	5903	4764	3568	2368	2121	2335	2423	2604	4237	4269
47.5	6924	5490	3952	2411	2058	2250	2352	2542	4050	4071
50.0	8002	6190	4292	2416	1977	2155	2279	2508	3714	3852
52.5	8907	6746	4494	2381	1876	2037	2198	2438	3309	3597
55.0	9272	6941	4458	2243	1755	1908	2105	2355	2907	3403
57.5	9127	6739	4093	2006	1609	1763	1979	2255	2557	3189
60.0	8710	6067	3360	1730	1483	1623	1865	2148	2259	2949
62.5	7533	4917	2441	1447	1361	1515	1734	2016	2034	2696
65.0	5523	3504	1679	1231	1247	1409	1610	1874	1898	2449
67.5	3526	2186	1205	1037	1132	1292	1467	1745	1732	2165
70.0	1880	1207	802	867	1005	1157	1318	1586	1549	1847
72.5	823	617	575	730	887	1011	1151	1404	1315	1506
75.0	487	410	478	633	778	874	987	1075	996	1185
77.5	318	295	393	548	651	747	785	662	626	830

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CANDELA TABULATION - (Cont.)

80.0	258	235	326	466	545	550	580	441	348	496
82.5	196	177	256	378	407	341	347	277	224	325
85.0	113	101	179	280	260	218	198	165	129	222
87.5	52	41	109	155	147	127	94	97	66	122
90.0	10	7	27	48	58	55	39	72	30	53
92.5	7	7	17	29	38	37	27	16	5	5
95.0	6	7	15	26	35	34	25	15	5	5
97.5	5	7	13	22	29	28	22	14	5	5
100.0	6	8	11	17	23	23	18	12	5	5
102.5	6	8	10	15	19	19	16	11	6	5
105.0	6	8	10	14	17	17	15	11	6	5
107.5	6	8	10	13	15	15	15	11	7	5
110.0	7	9	10	12	15	15	14	12	7	5
112.5	7	9	10	12	14	15	14	12	8	6
115.0	8	9	10	12	14	15	15	13	9	7
117.5	8	9	10	12	14	15	15	13	10	8
120.0	9	10	11	13	15	15	15	14	10	8
122.5	9	10	11	13	15	15	15	14	11	9
125.0	10	11	11	13	15	15	15	15	12	10
127.5	10	11	11	13	15	15	16	15	14	11
130.0	10	11	11	13	15	15	16	15	14	11
132.5	10	11	11	13	15	15	16	15	13	11
135.0	10	10	11	12	14	15	15	14	12	10
137.5	8	8	9	10	11	11	11	10	8	6
140.0	6	7	7	8	9	9	9	8	6	5
142.5	6	6	7	7	8	8	8	7	5	4
145.0	5	6	7	7	8	8	8	6	5	3
147.5	5	6	6	7	7	7	7	6	5	3
150.0	5	6	6	6	7	7	7	5	5	2
152.5	5	6	6	6	7	7	6	5	4	2
155.0	5	5	6	6	7	6	6	5	4	1
157.5	5	5	5	6	6	6	5	5	3	1
160.0	5	5	5	5	5	5	5	4	2	0
162.5	5	5	5	5	5	5	5	4	2	0
165.0	4	5	5	5	5	5	5	3	1	0
167.5	4	5	5	5	5	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	1064	1064
2.5	1069	1072
5.0	1054	1058
7.5	1066	1056
10.0	1103	1102
12.5	1247	1241
15.0	1377	1377
17.5	1460	1485
20.0	1608	1606
22.5	1694	1695
25.0	1858	1849

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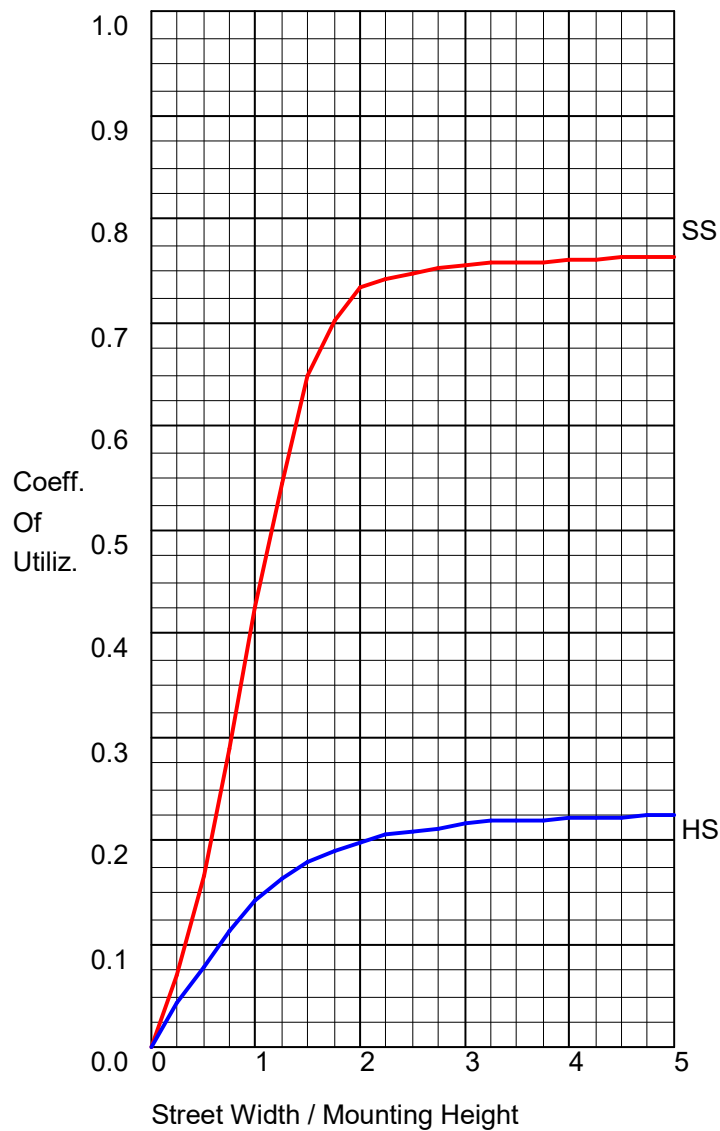
CANDELA TABULATION - (Cont.)

27.5	2096	2058
30.0	2408	2378
32.5	2967	2899
35.0	3364	3329
37.5	3616	3480
40.0	3441	3277
42.5	3179	2961
45.0	2891	2688
47.5	2713	2517
50.0	2615	2419
52.5	2579	2373
55.0	2614	2368
57.5	2675	2396
60.0	2759	2449
62.5	2845	2566
65.0	2881	2706
67.5	2824	2783
70.0	2591	2720
72.5	2105	2328
75.0	1413	1641
77.5	1026	1144
80.0	744	801
82.5	546	562
85.0	446	478
87.5	581	700
90.0	197	179
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	5	5
122.5	6	6
125.0	7	7
127.5	8	8
130.0	8	8
132.5	8	8
135.0	7	7
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

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-30.IES****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

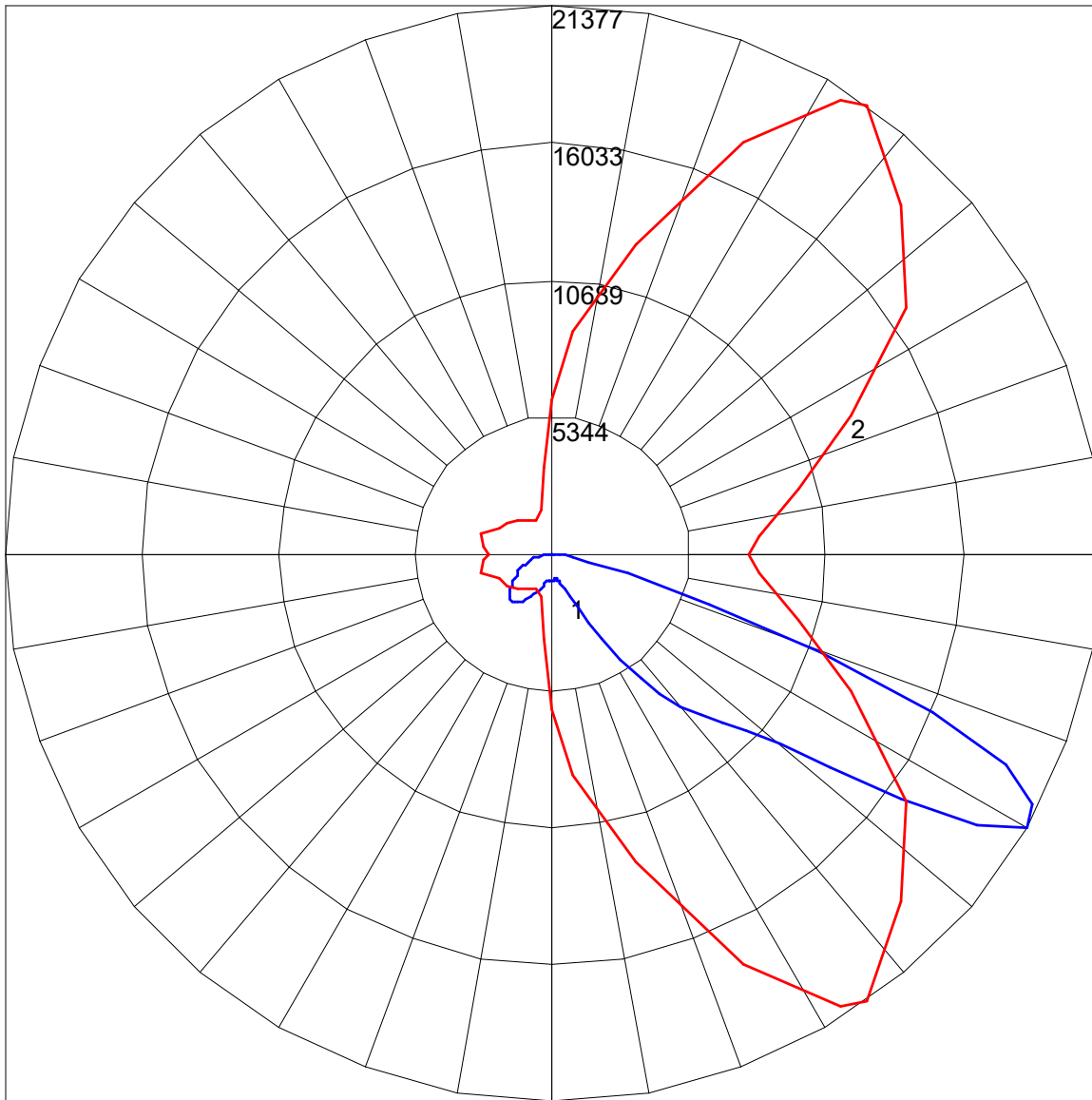
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	18150.4	76.9
Downward House Side	5401.7	22.9
Downward Total	23552.1	99.7
Upward Street Side	25.2	0.1
Upward House Side	36.9	0.2
Upward Total	62.1	0.3
Total Flux	23614.2	100.0

POLAR GRAPH

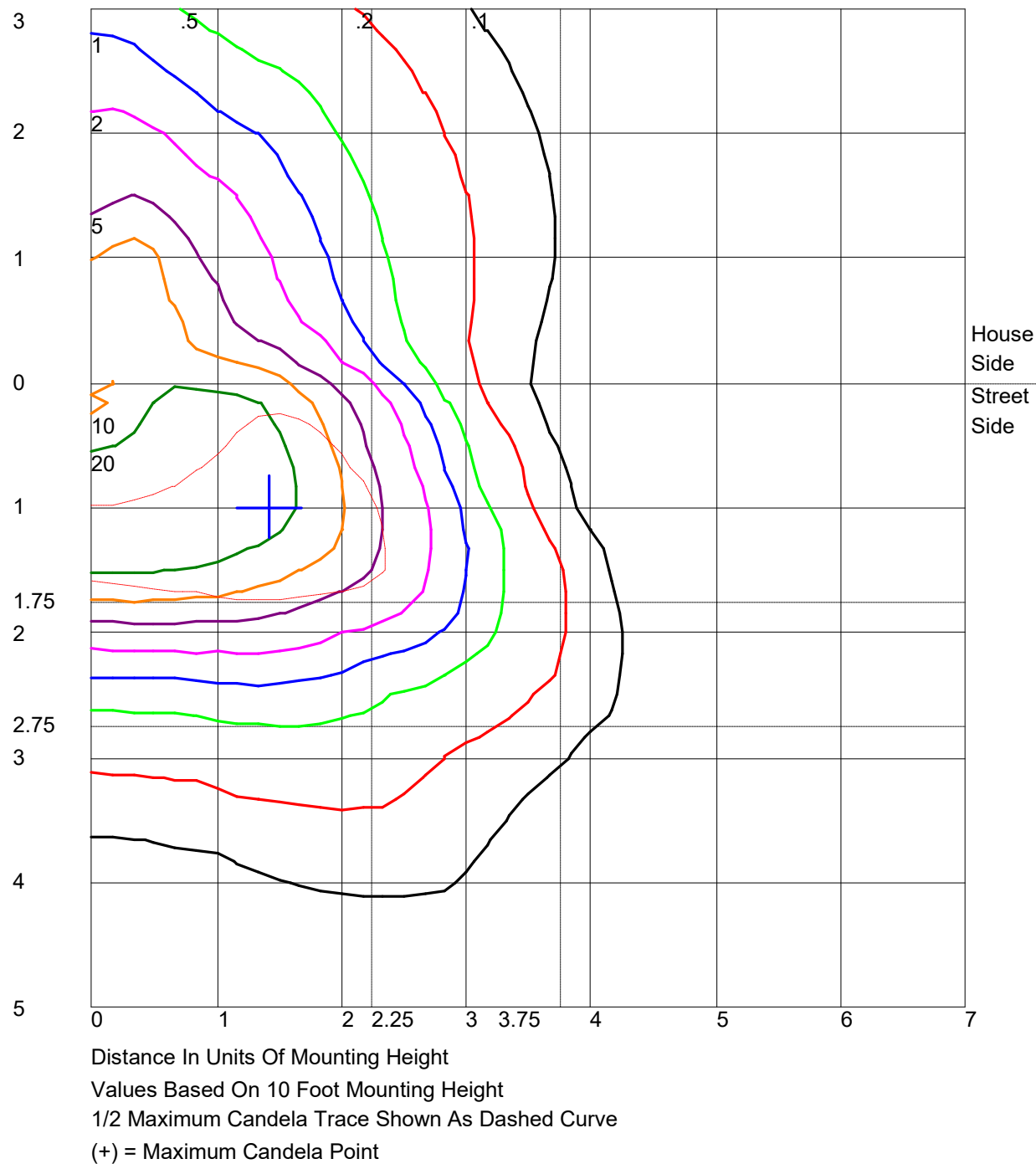


Maximum Candela = 21377 Located At Horizontal Angle = 55, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

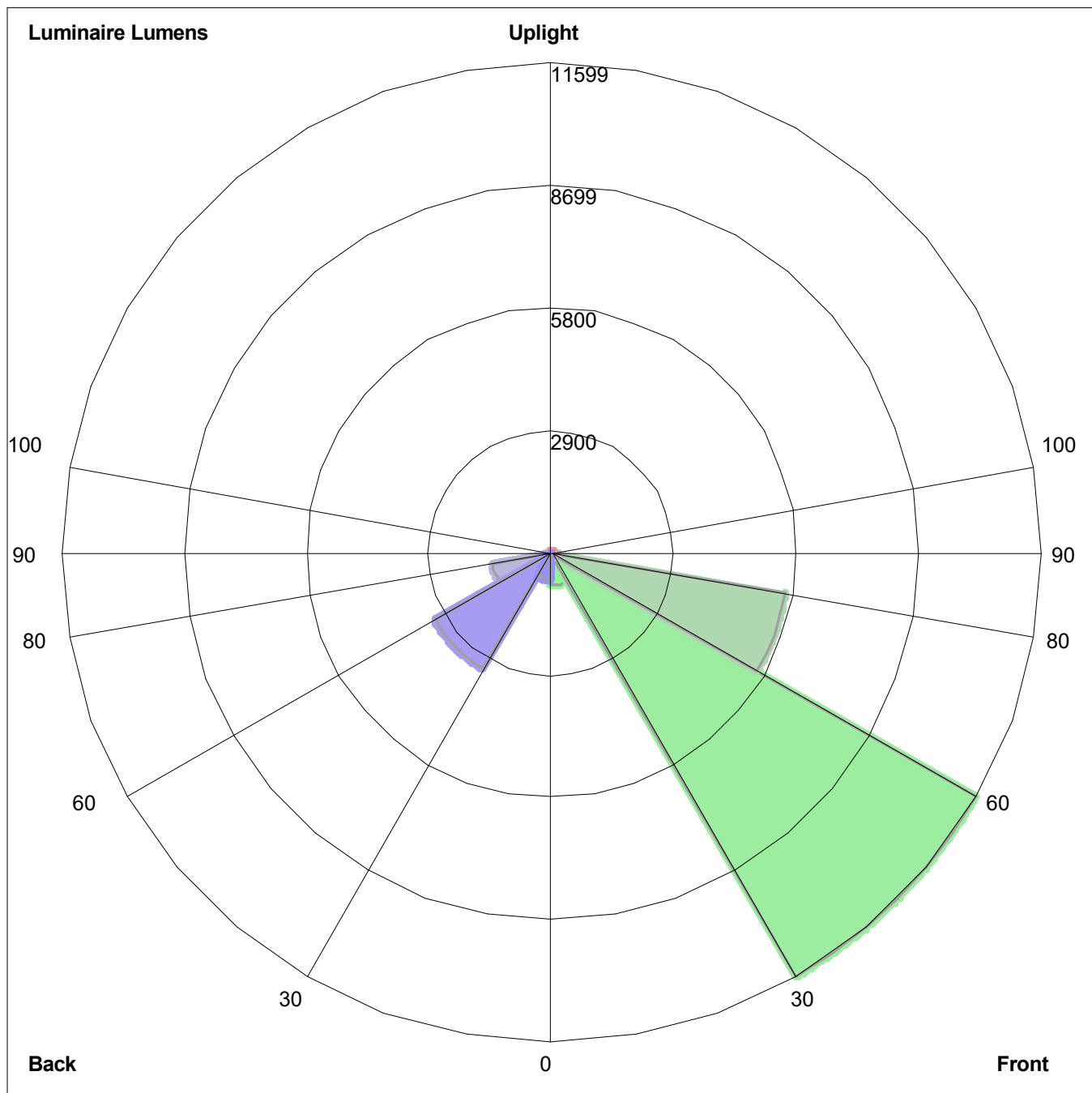
IES ROAD REPORT

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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=758.3, Medium=11599.2, High=5625.7, Very High=167.2
Back: Low=645.5, Medium=3196.2, High=1420.6, Very High=139.3
Uplight: Low=19.3, High=42.8

BUG Rating : B3-U2-G3