



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-50.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-50
[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	27190
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24615
Maximum Candela Angle	55H 60V
Maximum Candela (<90 Degrees Vertical)	24615
Maximum Candela Angle (<90 Degrees Vertical)	55H 60V
Maximum Candela At 90 Degrees Vertical	227 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1352 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-50.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	873.1	N.A.	3.2
FM - Front-Medium (30-60)	13355.9	N.A.	49.1
FH - Front-High (60-80)	6477.7	N.A.	23.8
FVH - Front-Very High (80-90)	192.5	N.A.	0.7
BL - Back-Low (0-30)	743.3	N.A.	2.7
BM - Back-Medium (30-60)	3680.3	N.A.	13.5
BH - Back-High (60-80)	1635.8	N.A.	6.0
BVH - Back-Very High (80-90)	160.5	N.A.	0.6
UL - Uplight-Low (90-100)	22.2	N.A.	0.1
UH - Uplight-High (100-180)	48.9	N.A.	0.2
Total	27190.3	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	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225
2.5	1204	1205	1202	1198	1201	1203	1213	1213	1214	1207
5.0	1198	1171	1176	1191	1183	1157	1137	1141	1139	1144
7.5	1140	1138	1157	1133	1138	1129	1141	1142	1174	1168
10.0	1129	1137	1152	1114	1145	1186	1212	1213	1212	1211
12.5	1200	1225	1202	1181	1228	1237	1275	1277	1282	1277
15.0	1269	1293	1289	1322	1367	1335	1368	1377	1379	1390
17.5	1367	1392	1378	1421	1477	1512	1490	1502	1512	1513
20.0	1579	1599	1595	1602	1643	1694	1736	1762	1702	1688
22.5	1815	1798	1879	1921	1965	2008	2117	2140	2044	2002
25.0	2238	2244	2305	2346	2434	2546	2661	2744	2632	2446
27.5	3029	3186	3198	3055	3116	3386	3443	3501	3461	3162
30.0	3987	3995	3919	3976	4110	4378	4436	4539	4473	4082
32.5	5140	5271	4951	4837	5183	5343	5643	5640	5674	5025
35.0	6248	6166	6165	6049	6059	6653	6889	6915	6755	5883
37.5	7699	7718	7416	7218	7425	7691	7975	7985	7705	6468
40.0	9158	9073	8869	8810	8539	8864	9023	8927	8478	7162
42.5	10684	10730	10411	10386	9878	9995	9897	9714	9041	7755
45.0	12600	12548	12286	12052	11369	11133	10761	10507	9712	8498
47.5	14404	14423	14417	13944	13157	12550	11844	11666	10655	9531
50.0	16191	16325	16333	16024	15111	14397	13359	13211	12213	11007
52.5	16684	16748	17537	17939	17781	16651	15797	15553	14442	12754
55.0	15446	15508	17096	18424	19667	19422	19157	18740	17389	14018
57.5	13257	13354	14959	17389	20247	21468	22643	22217	19600	14616
60.0	8780	9295	11404	14759	19385	22098	24615	24195	20382	14381
62.5	5046	5410	7081	10495	16256	20888	24362	24111	19768	13405
65.0	2749	2848	3693	6135	11461	17564	22500	22295	17943	10911
67.5	1661	1715	2108	3277	6974	12519	18520	18534	14337	7646
70.0	1037	1082	1376	2190	3835	6963	12782	12933	9916	4672
72.5	779	801	991	1582	2586	3596	7406	7736	5777	2144
75.0	580	602	794	1294	1933	2120	3487	3801	2661	982
77.5	421	436	620	1118	1626	1461	1691	1813	1384	586
80.0	299	322	488	918	1352	1071	916	990	800	405
82.5	222	239	372	689	1011	697	586	659	553	313
85.0	209	243	267	493	578	360	329	358	334	206
87.5	201	252	199	304	320	116	135	117	125	108
90.0	57	61	54	86	64	26	20	19	19	18
92.5	31	25	22	28	15	13	14	14	12	10
95.0	12	12	10	10	9	10	12	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	12	12	12	9	9	8	9
122.5	12	12	12	12	12	12	9	9	9	9
125.0	12	12	12	12	12	12	9	9	9	10
127.5	12	12	12	13	13	13	10	9	10	10
130.0	12	12	12	13	13	13	10	10	10	10

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CANDELA TABULATION - (Cont.)

132.5	12	12	12	13	12	12	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	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225
2.5	1213	1223	1223	1214	1219	1226	1231	1244	1241	1228
5.0	1152	1154	1155	1146	1181	1206	1229	1233	1233	1219
7.5	1162	1175	1181	1220	1204	1192	1171	1180	1203	1234
10.0	1202	1204	1198	1267	1189	1212	1207	1192	1186	1234
12.5	1258	1262	1287	1273	1257	1251	1243	1322	1352	1409
15.0	1341	1343	1310	1303	1297	1332	1431	1487	1514	1534
17.5	1447	1388	1382	1375	1347	1474	1591	1635	1658	1654
20.0	1603	1546	1513	1437	1428	1616	1704	1767	1833	1823
22.5	1873	1748	1671	1586	1623	1799	1851	1938	1981	1987
25.0	2242	2073	1966	1719	1858	1996	1986	2064	2191	2181
27.5	2811	2486	2299	1913	2106	2177	2157	2239	2485	2529
30.0	3473	3035	2664	2089	2280	2409	2351	2452	2777	2885
32.5	4067	3520	2983	2278	2426	2589	2531	2678	3160	3478
35.0	4641	3881	3241	2438	2521	2716	2721	2847	3550	4031
37.5	5090	4262	3441	2564	2560	2792	2812	3014	3898	4713
40.0	5558	4549	3613	2677	2559	2828	2855	3061	4365	5129
42.5	6091	4904	3813	2692	2514	2775	2837	3061	4803	4995
45.0	6798	5486	4108	2727	2442	2688	2790	2998	4879	4915
47.5	7973	6321	4551	2776	2370	2591	2708	2927	4663	4688
50.0	9214	7127	4942	2782	2276	2481	2625	2887	4277	4436
52.5	10256	7768	5175	2742	2160	2345	2530	2808	3811	4142
55.0	10676	7992	5133	2583	2021	2196	2424	2711	3347	3919
57.5	10509	7760	4713	2309	1853	2030	2279	2596	2944	3671
60.0	10029	6986	3869	1992	1707	1869	2147	2474	2602	3396
62.5	8674	5662	2811	1666	1567	1744	1996	2321	2342	3104
65.0	6360	4035	1934	1418	1435	1623	1854	2158	2185	2820
67.5	4060	2517	1387	1195	1303	1488	1690	2009	1994	2493
70.0	2165	1389	923	999	1157	1332	1518	1826	1784	2127
72.5	947	711	662	841	1022	1164	1325	1616	1514	1734
75.0	561	472	551	729	896	1006	1137	1237	1147	1364
77.5	366	339	452	631	750	861	903	762	721	956

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CANDELA TABULATION - (Cont.)

80.0	297	270	376	536	627	633	668	508	401	572
82.5	226	204	295	436	469	393	400	319	258	374
85.0	130	116	206	322	299	251	228	191	149	255
87.5	60	47	126	179	170	147	108	112	76	140
90.0	12	8	31	55	67	64	45	83	35	61
92.5	8	8	20	34	44	43	31	19	6	5
95.0	7	8	18	30	41	39	28	17	6	5
97.5	6	8	15	25	34	32	25	16	6	5
100.0	7	9	13	20	26	26	21	14	6	5
102.5	7	9	12	17	22	22	19	13	7	5
105.0	7	9	12	16	20	20	18	13	7	5
107.5	7	9	12	15	18	18	17	13	8	6
110.0	8	10	12	14	17	17	16	14	8	6
112.5	8	10	12	14	16	17	16	14	9	7
115.0	9	10	12	14	16	17	17	15	10	8
117.5	9	10	12	14	16	17	17	15	12	9
120.0	10	12	13	15	17	17	17	16	12	9
122.5	10	12	13	15	17	18	18	16	13	10
125.0	12	13	13	15	17	18	18	17	14	12
127.5	12	13	13	15	17	18	19	18	16	13
130.0	12	13	13	15	17	18	19	18	16	13
132.5	12	13	13	15	17	18	19	17	15	13
135.0	12	12	13	14	16	17	17	16	14	12
137.5	9	9	10	12	13	13	13	12	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	1225	1225
2.5	1231	1234
5.0	1213	1219
7.5	1227	1215
10.0	1270	1269
12.5	1436	1429
15.0	1586	1586
17.5	1681	1710
20.0	1852	1849
22.5	1950	1951
25.0	2140	2129

IES ROAD REPORT
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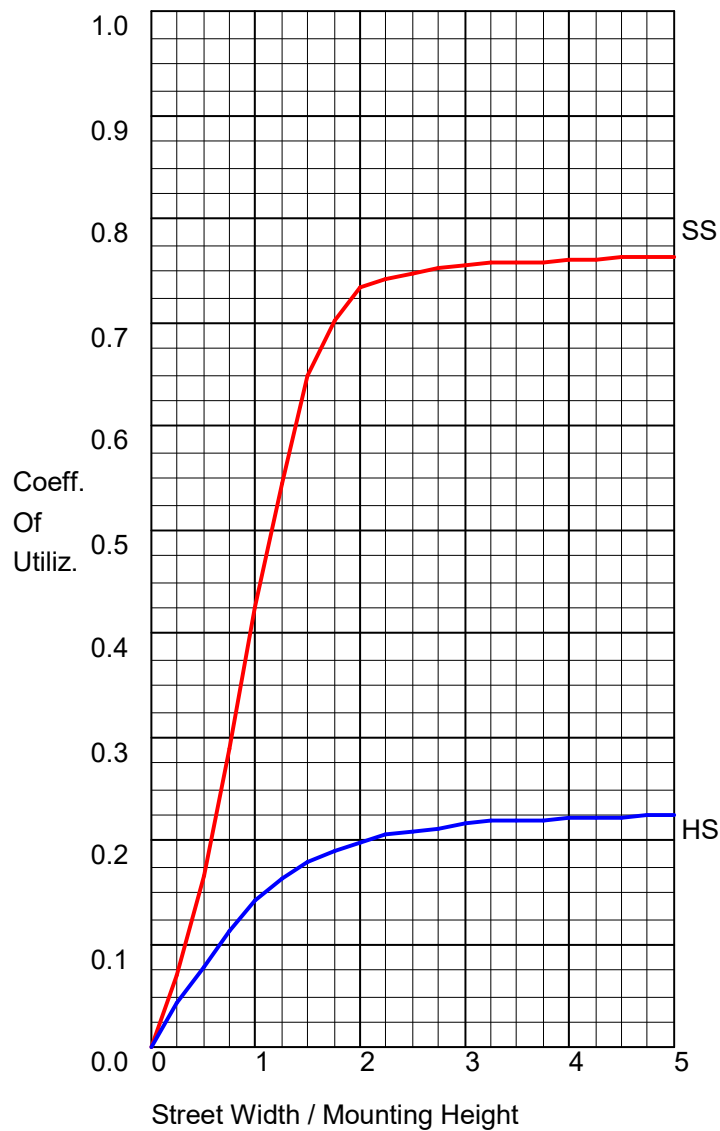
CANDELA TABULATION - (Cont.)

27.5	2413	2369
30.0	2773	2739
32.5	3416	3338
35.0	3874	3834
37.5	4164	4008
40.0	3963	3773
42.5	3660	3410
45.0	3329	3095
47.5	3124	2898
50.0	3011	2786
52.5	2970	2732
55.0	3010	2727
57.5	3080	2759
60.0	3176	2820
62.5	3276	2954
65.0	3318	3116
67.5	3252	3205
70.0	2984	3132
72.5	2424	2680
75.0	1627	1890
77.5	1182	1317
80.0	856	922
82.5	629	647
85.0	513	551
87.5	669	806
90.0	227	206
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

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-50.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

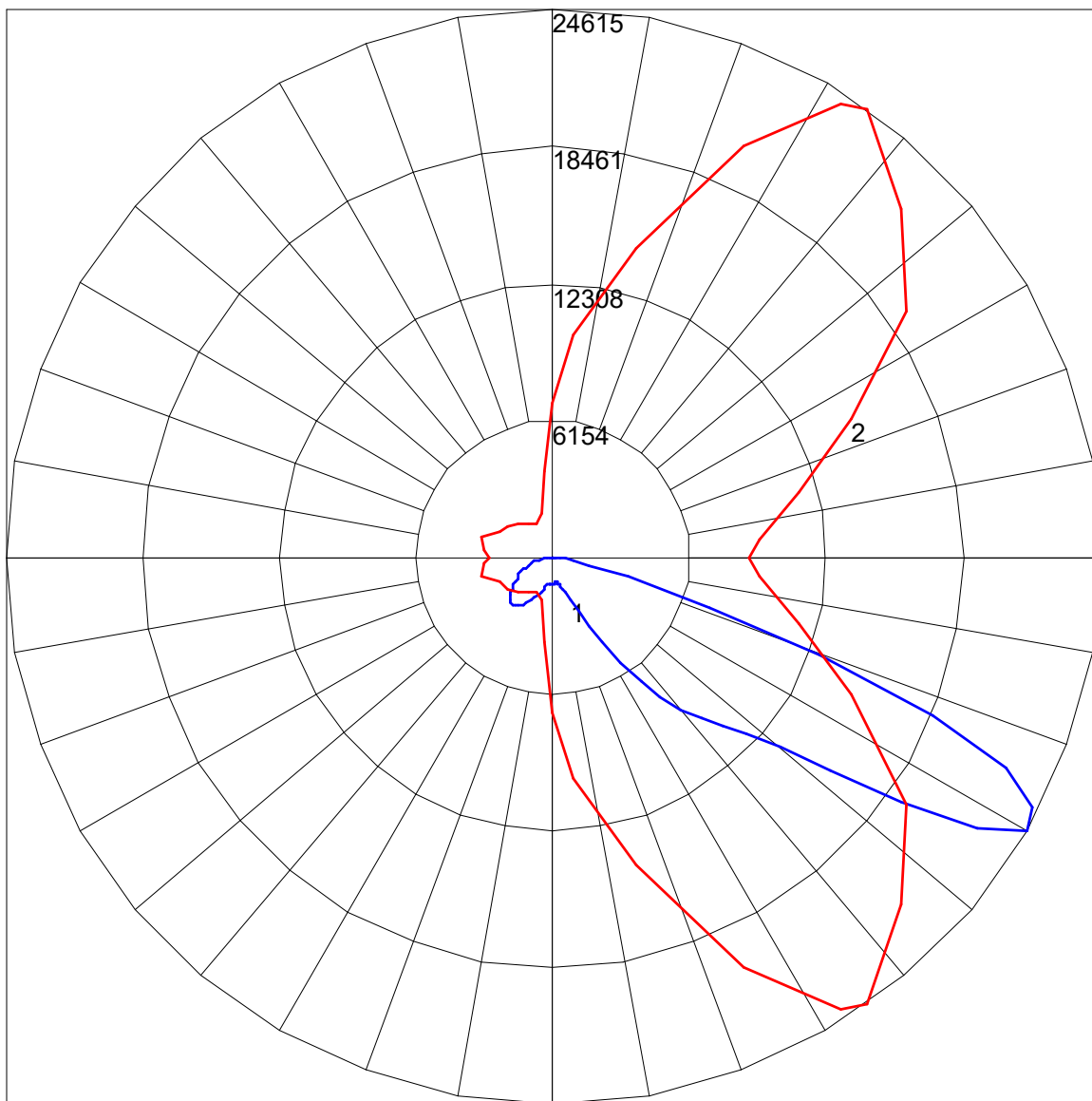
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

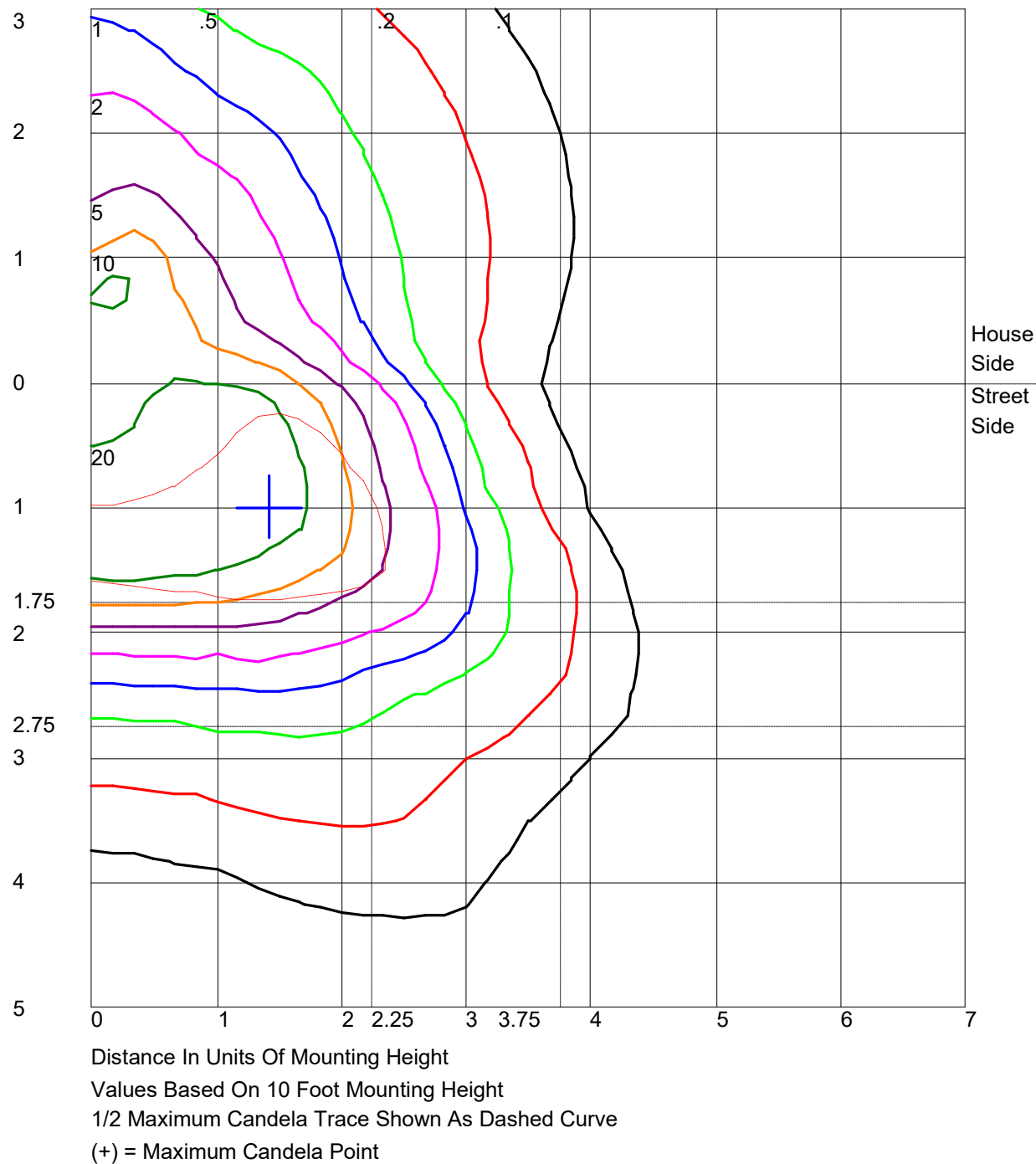
	Lumens	Percent Of Luminaire
Downward Street Side	20899.4	76.9
Downward House Side	6219.9	22.9
Downward Total	27119.3	99.7
Upward Street Side	28.6	0.1
Upward House Side	42.5	0.2
Upward Total	71.1	0.3
Total Flux	27190.4	100.0

POLAR GRAPH

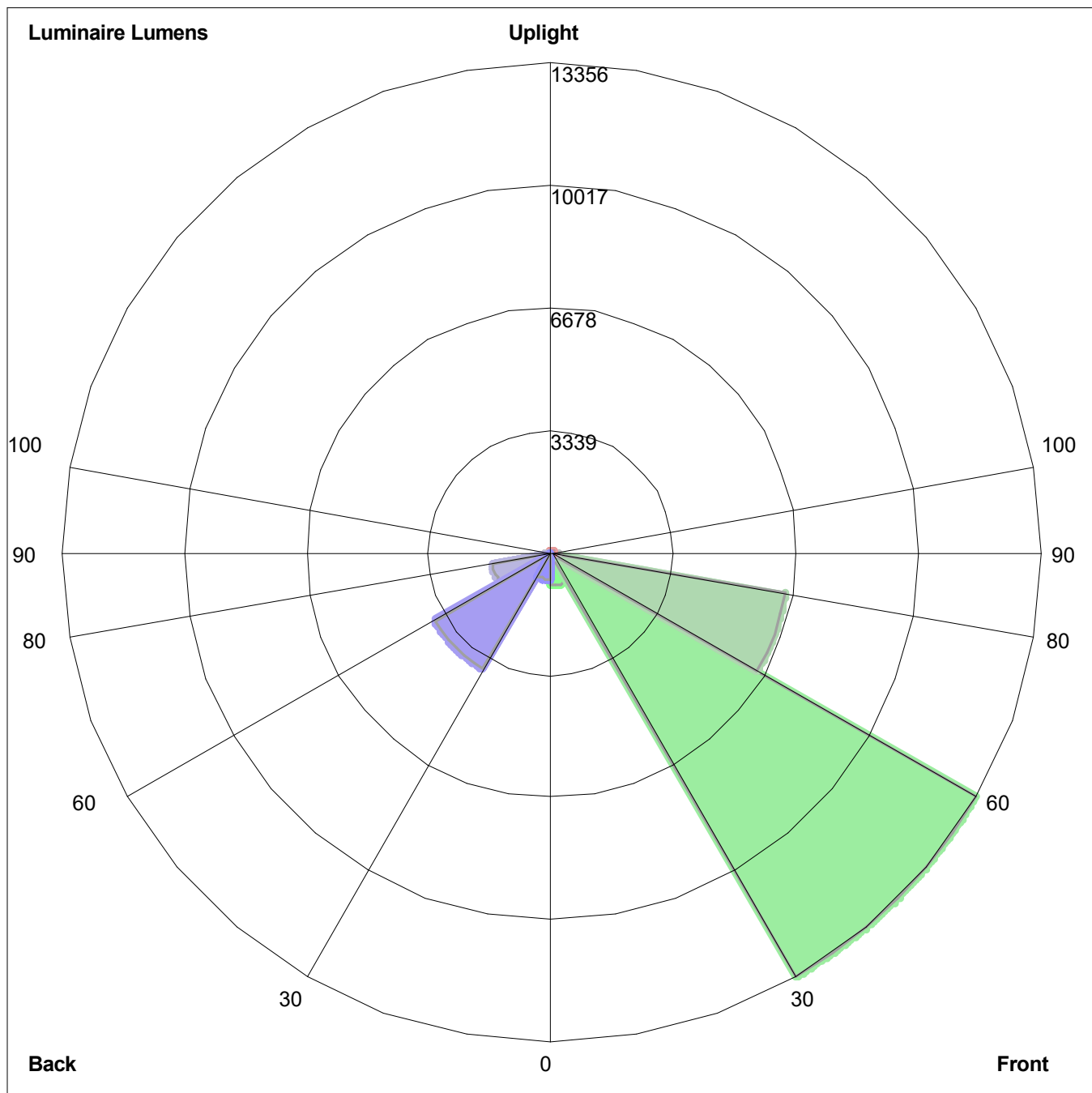


Maximum Candela = 24615 Located At Horizontal Angle = 55, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=873.1, Medium=13355.9, High=6477.7, Very High=192.5
Back: Low=743.3, Medium=3680.3, High=1635.8, Very High=160.5
Uplight: Low=22.2, High=48.9

BUG Rating : B3-U2-G3