



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-3-LED-10L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11678
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/02/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-3-LED-10L-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10835
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10642
Maximum Candela Angle	57.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	10642
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 67.5V
Maximum Candela At 90 Degrees Vertical	48 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	929 (8.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-10L-50.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	315.5	N.A.	2.9
FM - Front-Medium (30-60)	4430.5	N.A.	40.9
FH - Front-High (60-80)	3757.9	N.A.	34.7
FVH - Front-Very High (80-90)	92.0	N.A.	0.8
BL - Back-Low (0-30)	315.0	N.A.	2.9
BM - Back-Medium (30-60)	1247.0	N.A.	11.5
BH - Back-High (60-80)	592.6	N.A.	5.5
BVH - Back-Very High (80-90)	56.9	N.A.	0.5
UL - Uplight-Low (90-100)	9.6	N.A.	0.1
UH - Uplight-High (100-180)	18.4	N.A.	0.2
Total	10835.4	N.A.	100.0
BUG Rating	B2-U2-G2		

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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	537	537	537	537	537	537	537	537	537	537
2.5	521	523	516	515	518	520	530	530	532	529
5.0	466	470	476	487	500	487	486	485	486	489
7.5	444	452	465	456	453	452	467	477	501	499
10.0	446	444	445	441	450	477	488	491	496	504
12.5	464	465	464	448	469	485	498	500	512	532
15.0	489	487	489	497	511	504	527	535	545	557
17.5	528	524	516	530	542	562	558	567	580	598
20.0	615	608	594	590	602	616	634	632	633	645
22.5	690	699	701	717	709	717	743	736	715	719
25.0	848	825	846	871	881	888	909	894	873	840
27.5	1114	1132	1123	1095	1102	1151	1125	1117	1097	1028
30.0	1458	1433	1391	1432	1398	1464	1430	1411	1360	1227
32.5	1881	1862	1759	1724	1783	1816	1790	1764	1677	1503
35.0	2190	2197	2148	2104	2139	2229	2156	2130	1993	1749
37.5	2612	2573	2502	2515	2541	2608	2520	2501	2275	1967
40.0	2961	2941	2945	2938	2949	2983	2849	2822	2533	2170
42.5	3339	3334	3332	3345	3372	3328	3191	3129	2770	2305
45.0	3846	3876	3855	3860	3834	3758	3470	3411	2988	2438
47.5	4629	4591	4584	4578	4384	4175	3797	3686	3190	2579
50.0	5497	5467	5499	5449	5136	4656	4134	3989	3442	2762
52.5	6366	6342	6416	6386	6035	5252	4524	4370	3775	3023
55.0	7068	7086	7215	7263	6977	6042	5053	4875	4201	3391
57.5	7193	7249	7580	7951	8021	6980	5835	5624	4826	3988
60.0	6463	6520	7178	7830	8703	8108	6951	6724	5807	4824
62.5	4322	4428	5167	6647	8383	9014	8402	8179	7038	5747
65.0	2212	2181	2699	4154	7179	9116	9878	9796	8205	6408
67.5	970	1020	1246	2073	4602	8046	10527	10642	8932	6385
70.0	548	574	712	1098	2338	5875	9387	9863	8563	5062
72.5	308	329	439	715	1355	3115	6803	7414	5948	3004
75.0	218	228	294	500	915	1611	3551	3996	3325	1238
77.5	160	166	225	412	680	946	1745	1969	1422	516
80.0	116	122	174	334	544	593	802	929	724	256
82.5	80	83	134	243	395	383	339	380	341	148
85.0	59	62	101	186	236	217	161	163	156	92
87.5	49	52	73	135	141	84	54	57	58	48
90.0	26	30	40	46	48	21	15	15	13	12
92.5	8	8	10	10	5	6	7	7	7	6
95.0	4	4	3	3	3	4	6	6	6	5
97.5	3	3	3	3	3	4	4	5	5	4
100.0	3	3	2	3	3	3	4	4	4	4
102.5	2	3	2	3	3	3	3	3	3	4
105.0	2	2	2	3	3	3	3	3	3	4
107.5	2	2	2	3	3	3	3	3	3	4
110.0	2	2	2	3	3	3	3	3	3	4
112.5	3	3	3	3	3	3	3	3	3	4
115.0	3	3	3	3	3	3	3	3	3	4
117.5	3	3	3	3	3	4	3	3	3	4
120.0	3	3	3	3	4	4	3	3	4	4
122.5	4	4	4	4	4	4	3	3	4	4
125.0	4	4	4	4	4	4	3	3	4	4
127.5	3	4	4	4	4	4	4	4	4	4
130.0	4	4	4	4	4	4	4	4	4	4

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CANDELA TABULATION - (Cont.)

132.5	4	4	4	4	4	4	4	4	4	4
135.0	3	4	3	3	4	4	3	3	4	4
137.5	2	2	2	2	3	3	3	3	3	3
140.0	0	1	1	2	2	2	2	2	2	3
142.5	0	0	1	1	2	2	2	2	2	3
145.0	0	1	1	1	2	2	2	2	2	3
147.5	0	1	1	1	1	1	2	2	2	2
150.0	0	1	1	1	1	1	2	2	2	2
152.5	0	1	1	1	1	1	1	2	2	2
155.0	0	1	1	1	1	1	1	1	2	2
157.5	0	0	1	1	1	1	1	1	2	2
160.0	1	0	1	1	1	1	1	1	1	2
162.5	0	0	1	1	1	1	1	1	1	2
165.0	0	0	1	1	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	1	2
170.0	0	0	1	1	1	1	1	1	2	2
172.5	0	0	1	1	1	2	2	2	1	2
175.0	0	0	1	1	2	2	2	2	1	2
177.5	0	0	1	1	2	2	2	2	2	2
180.0	1	1	1	1	1	1	1	1	1	1

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	537	537	537	537	537	537	537	537	537	537
2.5	534	540	540	540	544	549	555	563	555	543
5.0	494	496	497	519	534	543	561	561	564	552
7.5	511	512	522	556	545	534	527	545	539	561
10.0	509	515	524	553	539	561	560	563	563	582
12.5	539	546	565	571	568	568	588	631	631	665
15.0	567	577	581	583	576	620	649	693	710	702
17.5	604	600	609	619	612	685	735	747	749	751
20.0	649	646	652	624	651	729	755	790	806	802
22.5	720	705	711	685	728	788	819	826	821	839
25.0	827	800	786	722	823	854	835	850	861	877
27.5	959	900	880	804	891	901	874	888	911	928
30.0	1115	1037	987	870	933	976	930	930	943	965
32.5	1267	1168	1078	939	983	1041	1010	981	1013	1084
35.0	1450	1300	1168	996	1006	1085	1071	1047	1110	1197
37.5	1589	1418	1236	1024	1019	1108	1094	1130	1178	1324
40.0	1692	1472	1255	1032	1014	1115	1104	1142	1292	1371
42.5	1767	1510	1255	1000	980	1099	1088	1154	1401	1346
45.0	1849	1548	1260	962	932	1053	1062	1122	1531	1237
47.5	1943	1605	1274	930	883	1004	1029	1095	1564	1173
50.0	2076	1696	1315	908	839	958	991	1073	1547	1152
52.5	2268	1825	1392	907	802	916	956	1034	1479	1141
55.0	2507	2028	1540	916	768	875	911	982	1358	1128
57.5	2950	2330	1713	928	731	823	858	906	1169	1080
60.0	3547	2653	1762	903	685	753	798	809	964	1061
62.5	4198	2955	1622	816	632	675	721	712	767	1039
65.0	4531	2902	1282	687	579	602	627	640	616	1003
67.5	4037	2564	950	559	512	527	555	580	522	940
70.0	2719	1732	602	453	432	452	485	528	477	796
72.5	1266	776	350	348	357	375	407	467	421	593
75.0	469	333	222	271	297	318	342	370	293	377
77.5	221	170	160	224	251	270	248	233	191	260

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CANDELA TABULATION - (Cont.)

80.0	125	103	132	192	215	193	155	176	137	185
82.5	85	71	108	163	159	126	118	136	89	129
85.0	53	48	87	126	102	90	85	69	41	81
87.5	25	25	62	83	57	48	35	29	18	39
90.0	8	6	22	35	25	22	16	9	4	6
92.5	5	5	12	19	22	20	14	7	2	1
95.0	5	5	10	17	21	19	14	7	2	1
97.5	4	5	8	14	18	16	12	6	2	1
100.0	4	4	7	12	15	14	9	6	2	1
102.5	4	5	6	9	12	12	8	5	2	1
105.0	4	5	6	8	9	9	8	5	3	2
107.5	4	5	5	7	8	8	7	5	3	2
110.0	4	5	5	6	7	7	7	5	3	2
112.5	4	5	5	6	7	7	7	5	3	2
115.0	4	5	5	6	7	7	7	5	3	2
117.5	4	5	5	6	7	7	7	5	4	3
120.0	5	5	6	6	7	8	7	5	4	3
122.5	5	5	6	7	8	8	7	6	4	3
125.0	5	5	6	6	7	8	7	6	4	3
127.5	5	5	6	6	7	8	7	6	4	3
130.0	5	5	6	6	7	7	7	6	4	3
132.5	5	5	6	6	7	7	6	5	4	3
135.0	5	5	5	6	6	6	5	4	3	2
137.5	4	4	5	5	5	5	5	4	2	1
140.0	3	4	4	4	4	4	4	3	2	1
142.5	3	3	3	4	4	4	3	2	1	0
145.0	3	3	3	4	4	4	3	2	1	0
147.5	3	3	3	4	4	3	3	2	1	0
150.0	3	3	3	3	4	3	3	2	1	0
152.5	3	3	3	3	3	3	2	1	0	0
155.0	3	3	3	3	3	3	2	1	0	0
157.5	2	3	3	3	3	3	2	1	0	0
160.0	2	2	3	3	3	3	2	1	0	0
162.5	2	2	3	3	3	2	2	1	0	0
165.0	2	2	2	3	2	2	2	1	0	0
167.5	2	2	2	3	3	2	2	1	0	0
170.0	2	2	2	3	3	2	2	1	0	0
172.5	2	2	2	2	3	2	2	1	0	0
175.0	2	2	2	2	3	2	2	1	0	0
177.5	2	2	2	2	2	2	2	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	537	537
2.5	545	548
5.0	549	558
7.5	563	574
10.0	598	606
12.5	666	676
15.0	728	747
17.5	779	784
20.0	823	829
22.5	834	864
25.0	892	908

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CANDELA TABULATION - (Cont.)

27.5	930	946
30.0	985	1012
32.5	1106	1122
35.0	1253	1268
37.5	1347	1346
40.0	1270	1248
42.5	1092	1067
45.0	990	967
47.5	938	907
50.0	895	862
52.5	852	816
55.0	789	744
57.5	727	667
60.0	708	619
62.5	714	588
65.0	764	599
67.5	861	675
70.0	925	813
72.5	872	873
75.0	722	845
77.5	605	726
80.0	457	537
82.5	319	364
85.0	220	246
87.5	144	188
90.0	10	2
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	1	1
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	1
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	2	2
135.0	1	2
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

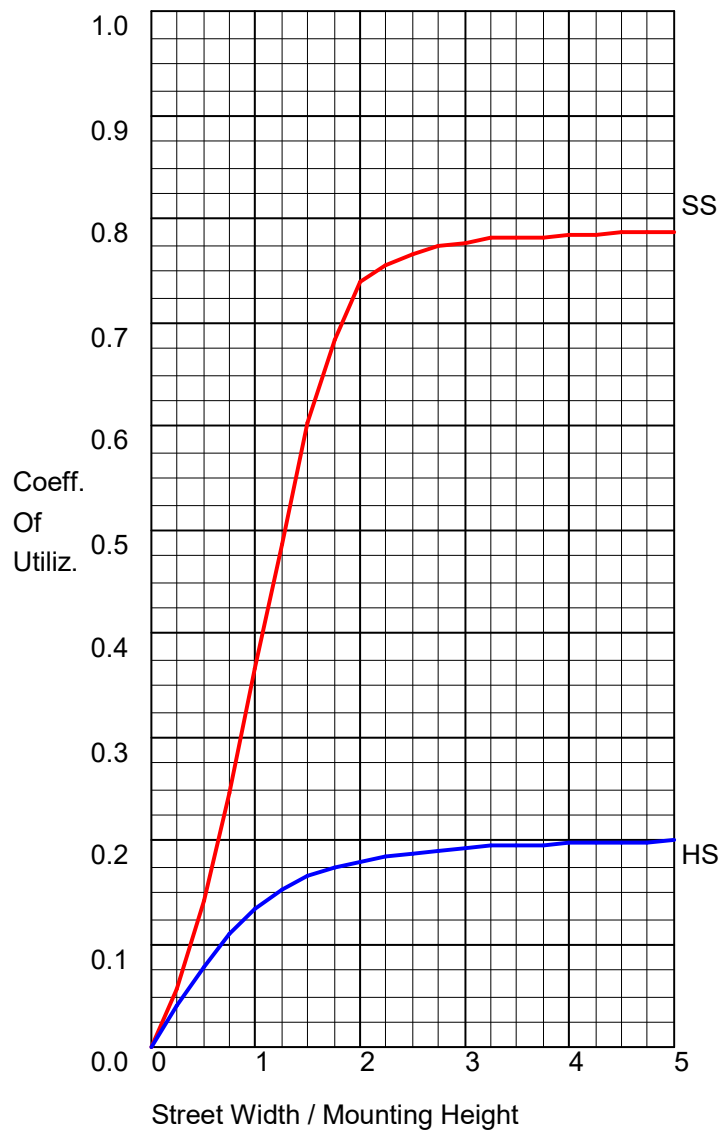
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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

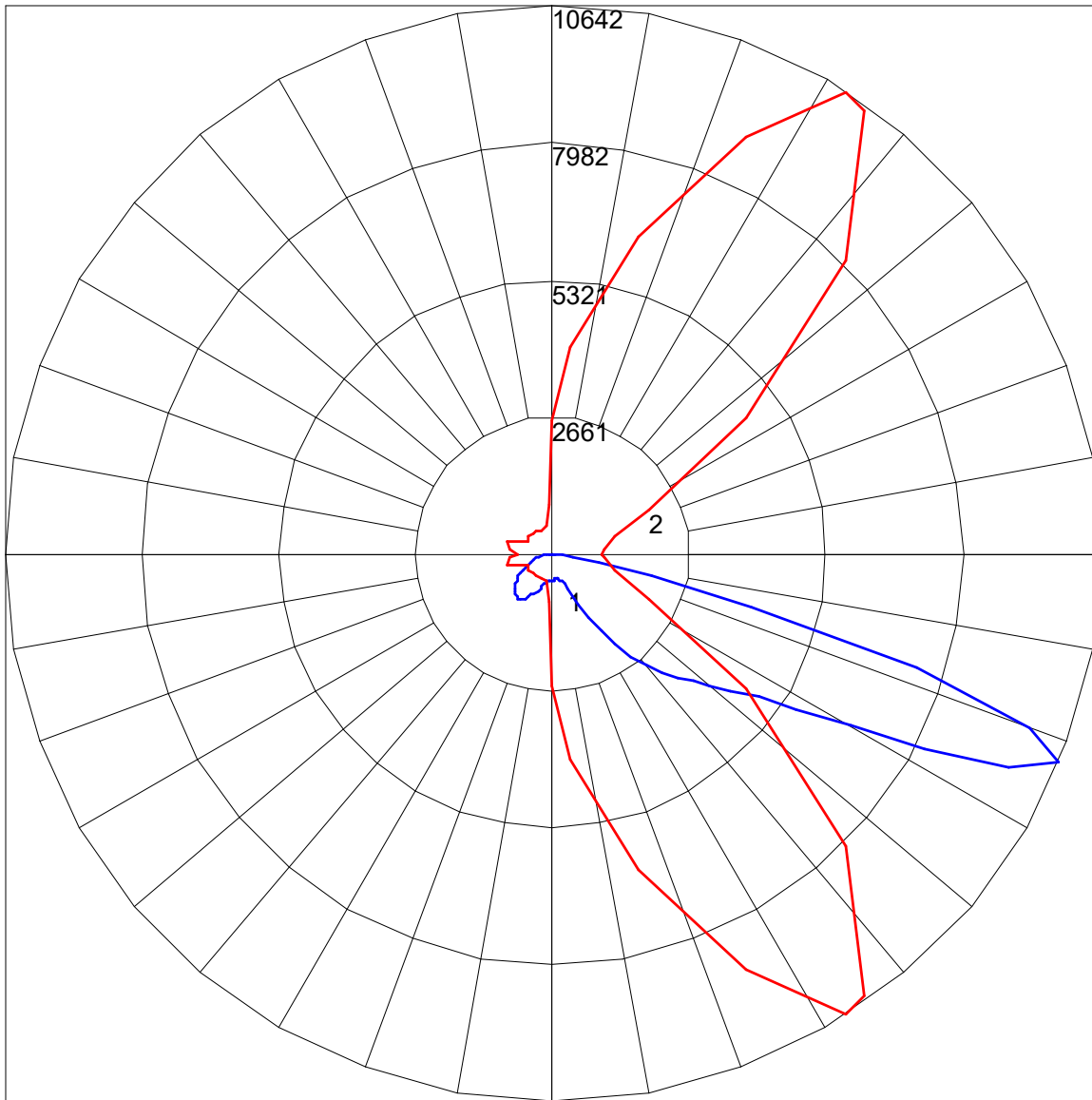
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

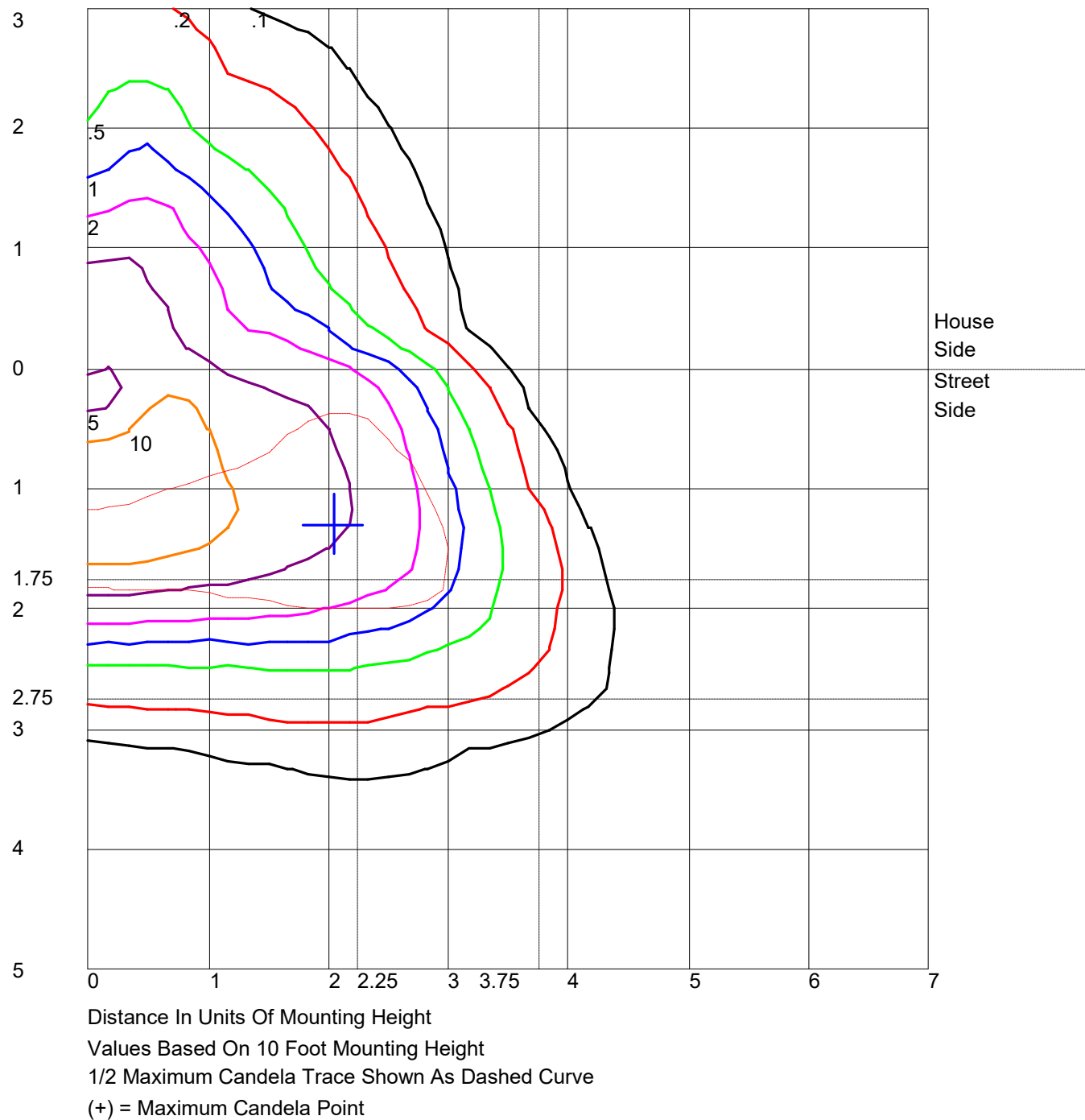
	Lumens	Percent Of Luminaire
Downward Street Side	8595.9	79.3
Downward House Side	2211.5	20.4
Downward Total	10807.4	99.7
Upward Street Side	11.5	0.1
Upward House Side	16.5	0.2
Upward Total	28.0	0.3
Total Flux	10835.4	100.0

POLAR GRAPH

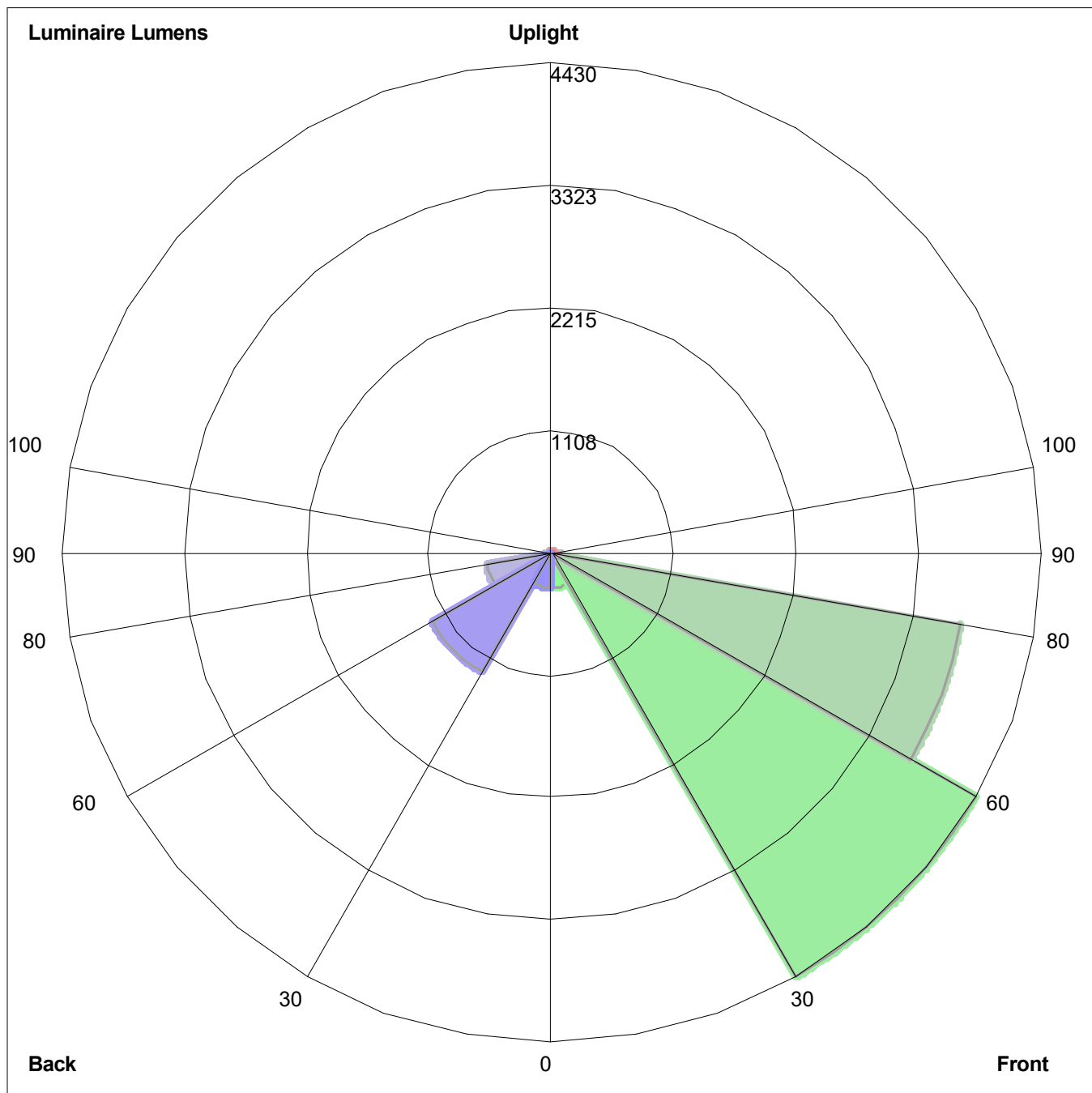


Maximum Candela = 10642 Located At Horizontal Angle = 57.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=315.5, Medium=4430.5, High=3757.9, Very High=92.0
Back: Low=315.0, Medium= 1247.0, High=592.6, Very High=56.9
Uplight: Low=9.6, High=18.4

BUG Rating : B2-U2-G2