



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11760

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/26/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-3-LED-25L-30-IL

[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	19424
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	227.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21283
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	21283
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	45 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	916 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	721.1	N.A.	3.7
FM - Front-Medium (30-60)	11516.7	N.A.	59.3
FH - Front-High (60-80)	5051.6	N.A.	26.0
FVH - Front-Very High (80-90)	120.6	N.A.	0.6
BL - Back-Low (0-30)	349.9	N.A.	1.8
BM - Back-Medium (30-60)	1321.6	N.A.	6.8
BH - Back-High (60-80)	260.0	N.A.	1.3
BVH - Back-Very High (80-90)	28.7	N.A.	0.1
UL - Uplight-Low (90-100)	13.3	N.A.	0.1
UH - Uplight-High (100-180)	41.0	N.A.	0.2
Total	19424.5	N.A.	100.0
BUG Rating	B2-U2-G3		

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

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	940	940	940	940	940	940	940	940	940	940
2.5	925	920	927	922	925	926	932	926	928	926
5.0	934	927	925	926	917	906	895	893	884	881
7.5	902	901	916	912	892	886	899	896	904	903
10.0	899	900	925	880	918	918	960	955	955	947
12.5	976	988	966	956	977	973	1004	1006	1016	998
15.0	1039	1038	1044	1058	1100	1086	1095	1083	1090	1106
17.5	1107	1133	1119	1162	1212	1253	1207	1189	1193	1207
20.0	1294	1329	1318	1314	1353	1406	1433	1415	1369	1353
22.5	1498	1488	1540	1576	1636	1673	1763	1750	1712	1608
25.0	1887	1836	1885	1980	2078	2107	2241	2236	2247	2021
27.5	2599	2601	2631	2618	2713	2811	2963	2971	3009	2673
30.0	3421	3418	3344	3485	3552	3736	3882	3940	3899	3481
32.5	4454	4467	4279	4223	4471	4656	4946	4955	4958	4281
35.0	5365	5364	5278	5335	5342	5879	6023	6102	5875	5099
37.5	6794	6757	6496	6299	6431	6751	6989	6996	6725	5627
40.0	7958	8080	7894	7497	7491	7771	7869	7858	7375	6197
42.5	9496	9524	9272	8819	8627	8674	8561	8556	7908	6732
45.0	11083	11127	10863	10314	9932	9768	9357	9220	8491	7348
47.5	12613	12584	12488	12059	11686	11084	10352	10196	9385	8307
50.0	13628	13657	13923	14019	13309	12588	11730	11517	10733	9589
52.5	13613	13883	14702	15536	15560	14545	13987	13694	12648	11099
55.0	12690	12889	13952	15595	16749	16920	17284	17248	15321	12188
57.5	10259	10429	12150	14500	16869	18518	20220	20307	17324	12532
60.0	6634	6818	8610	11859	15739	18706	21196	21283	17725	12047
62.5	3548	3565	4964	8266	12992	17302	20383	20547	16993	10780
65.0	1815	1919	2530	4767	9076	14258	18202	18559	14880	8465
67.5	1060	1120	1442	2471	5519	9666	14254	14728	11209	5422
70.0	727	766	968	1602	2993	5468	9368	9992	7159	3151
72.5	536	566	701	1213	1987	2743	5143	5662	3821	1361
75.0	366	389	507	946	1514	1571	2235	2445	1716	662
77.5	261	270	372	787	1197	1037	1002	1085	897	420
80.0	202	207	289	620	916	653	541	549	549	312
82.5	157	162	230	494	609	397	322	329	363	243
85.0	110	118	175	351	361	205	197	202	209	165
87.5	68	75	124	198	134	77	73	75	70	78
90.0	16	18	29	45	25	17	15	15	12	12
92.5	5	6	8	11	9	10	10	11	9	8
95.0	3	3	5	7	8	9	9	9	8	7
97.5	3	3	5	7	8	8	8	8	7	6
100.0	3	3	5	7	8	8	7	7	6	6
102.5	3	3	5	7	8	8	7	7	6	6
105.0	4	4	5	7	8	8	7	7	6	6
107.5	4	4	5	7	8	8	7	7	6	6
110.0	5	5	5	8	8	9	7	7	6	6
112.5	5	5	6	8	9	9	7	7	7	7
115.0	5	5	6	8	9	9	8	7	7	7
117.5	6	6	7	8	10	10	8	8	7	8
120.0	7	7	7	9	10	10	9	8	8	8
122.5	7	7	8	9	10	10	9	8	8	9
125.0	8	8	8	10	11	10	9	9	8	9
127.5	8	8	9	10	11	11	9	9	9	10
130.0	9	9	9	10	11	11	10	9	9	10

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

CANDELA TABULATION - (Cont.)

132.5	9	9	9	10	10	11	10	9	9	10
135.0	7	7	7	9	9	9	8	8	8	9
137.5	3	3	5	6	7	7	6	6	6	7
140.0	1	1	4	5	6	6	5	5	5	6
142.5	1	1	4	5	5	5	5	5	5	5
145.0	1	1	4	5	5	5	5	5	5	5
147.5	0	1	3	5	5	5	5	5	5	5
150.0	0	1	3	5	5	5	5	5	5	5
152.5	0	1	3	5	5	5	5	5	5	5
155.0	1	1	3	5	5	5	5	5	5	5
157.5	0	1	3	5	5	5	5	5	5	5
160.0	0	1	3	4	5	5	4	4	5	5
162.5	0	1	3	4	5	4	4	4	4	4
165.0	0	1	3	5	5	5	4	4	4	4
167.5	0	1	3	5	5	5	4	4	4	4
170.0	1	1	3	5	5	5	5	4	4	4
172.5	0	1	3	5	5	5	4	4	4	4
175.0	0	1	3	5	5	5	4	4	4	4
177.5	1	1	3	5	5	5	5	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	940	940	940	940	940	940	940	940	940	940
2.5	928	935	936	935	942	956	946	946	939	945
5.0	892	898	901	878	911	928	926	910	913	910
7.5	886	896	896	911	906	892	869	846	830	846
10.0	927	917	910	965	914	886	815	787	724	716
12.5	977	966	965	964	912	859	762	667	628	603
15.0	1026	1000	1001	1002	925	805	683	621	574	546
17.5	1109	1071	1095	1016	898	722	650	603	568	538
20.0	1217	1167	1137	1053	838	690	626	604	579	537
22.5	1457	1366	1312	1125	826	690	633	615	598	553
25.0	1778	1638	1525	1197	858	738	634	624	661	645
27.5	2279	2008	1854	1269	942	801	645	653	790	829
30.0	2849	2490	2162	1327	991	836	681	708	979	1040
32.5	3354	2901	2411	1371	1004	858	704	782	1149	1322
35.0	3864	3218	2625	1390	981	861	727	798	1369	1644
37.5	4288	3548	2780	1410	939	847	722	808	1647	2050
40.0	4722	3840	2977	1430	900	811	709	783	1916	2045
42.5	5213	4180	3164	1450	856	767	669	732	2059	1618
45.0	5899	4695	3453	1502	810	712	612	673	1670	1223
47.5	6890	5357	3786	1554	753	630	541	607	1100	916
50.0	7904	6100	4164	1573	679	506	436	523	623	697
52.5	8807	6648	4445	1541	566	374	318	396	407	552
55.0	9232	6797	4361	1411	443	280	236	266	282	446
57.5	9097	6410	3850	1205	361	235	195	189	193	359
60.0	8353	5576	3028	932	306	209	165	144	144	293
62.5	6966	4356	2069	676	263	183	138	111	109	239
65.0	4708	2922	1270	458	219	152	112	87	82	198
67.5	2699	1706	768	314	175	120	85	69	61	160
70.0	1230	870	437	225	141	95	64	53	45	123
72.5	526	447	304	185	114	77	53	44	30	92
75.0	328	305	253	167	95	66	46	31	20	67
77.5	245	238	212	155	83	60	41	26	13	50

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

CANDELA TABULATION - (Cont.)

80.0	220	200	175	136	75	55	37	22	11	40
82.5	163	148	143	114	66	51	36	21	10	34
85.0	101	96	105	81	56	47	35	20	10	29
87.5	50	45	56	53	46	42	31	18	8	24
90.0	11	10	18	31	37	35	27	16	6	14
92.5	8	6	14	25	32	31	23	15	5	5
95.0	8	5	13	23	29	27	21	14	5	5
97.5	7	6	10	18	24	23	17	13	6	5
100.0	7	6	10	15	19	18	15	12	6	5
102.5	7	7	9	12	15	15	14	11	6	5
105.0	7	7	9	12	14	15	13	11	7	5
107.5	7	7	9	12	13	14	13	11	8	5
110.0	7	8	10	12	13	13	13	11	8	5
112.5	7	8	10	12	13	13	13	11	9	6
115.0	8	9	10	12	13	13	13	12	9	6
117.5	8	9	11	12	13	13	13	12	9	6
120.0	9	10	11	12	13	13	13	12	10	7
122.5	9	11	11	12	13	14	13	12	10	7
125.0	10	11	12	13	13	14	14	13	10	8
127.5	10	11	12	13	13	14	14	13	11	9
130.0	11	11	12	13	13	14	14	13	11	9
132.5	10	11	12	13	13	14	14	13	11	9
135.0	10	10	11	12	13	13	13	12	10	8
137.5	8	9	9	10	11	12	12	10	8	6
140.0	7	7	8	9	10	10	10	9	7	5
142.5	6	7	7	8	9	10	9	8	6	5
145.0	6	7	7	8	9	9	9	8	6	4
147.5	6	7	7	8	8	9	8	7	5	4
150.0	6	7	7	7	8	8	8	7	5	3
152.5	6	6	7	7	8	8	8	7	5	3
155.0	6	6	7	7	8	8	7	6	5	3
157.5	5	6	6	7	7	7	7	5	4	2
160.0	5	5	6	6	7	6	6	5	3	1
162.5	5	5	5	6	6	6	5	5	3	1
165.0	5	5	5	5	6	5	5	4	2	0
167.5	5	5	5	5	5	5	5	4	2	0
170.0	4	5	5	5	5	5	5	4	2	0
172.5	4	5	5	5	5	5	5	4	2	0
175.0	4	5	5	5	5	5	5	4	2	0
177.5	4	4	5	5	5	4	4	4	2	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	940	940
2.5	947	949
5.0	900	903
7.5	827	822
10.0	689	695
12.5	599	597
15.0	552	541
17.5	527	525
20.0	523	515
22.5	514	502
25.0	558	536

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

CANDELA TABULATION - (Cont.)

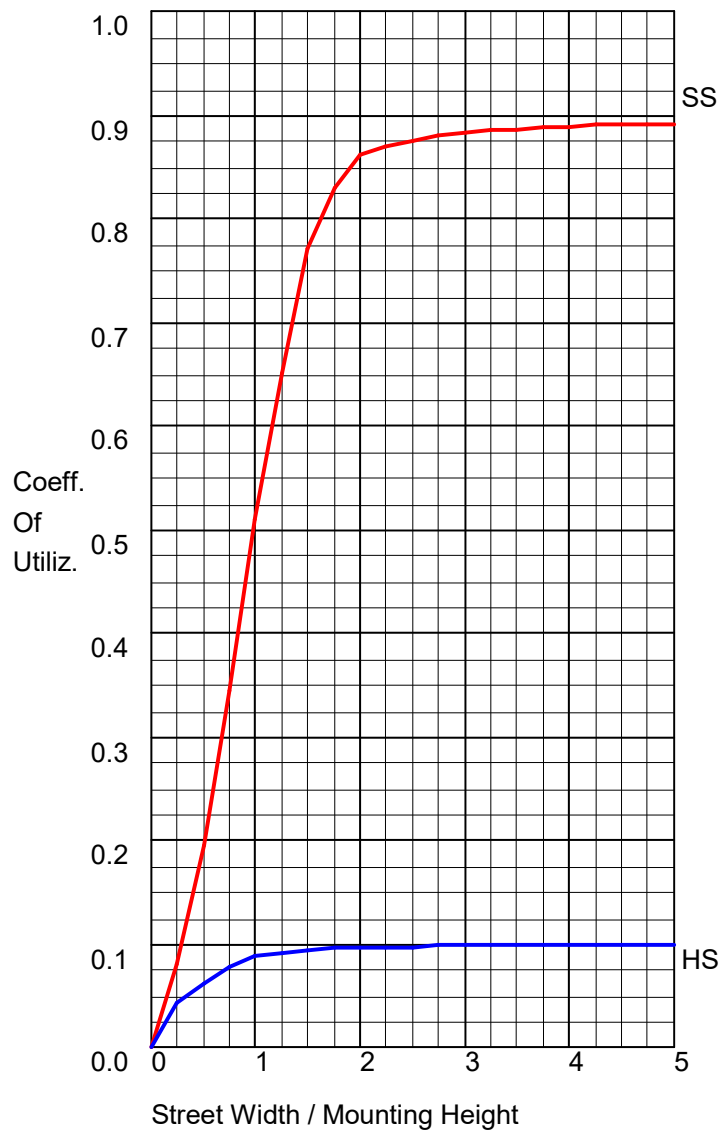
27.5	663	631
30.0	816	787
32.5	1034	987
35.0	1281	1226
37.5	1306	1215
40.0	1049	937
42.5	783	673
45.0	578	519
47.5	471	414
50.0	404	328
52.5	372	285
55.0	364	267
57.5	375	275
60.0	392	304
62.5	406	344
65.0	414	374
67.5	393	373
70.0	348	356
72.5	305	312
75.0	237	251
77.5	187	205
80.0	151	170
82.5	123	136
85.0	95	106
87.5	71	78
90.0	33	35
92.5	0	0
95.0	0	0
97.5	1	0
100.0	1	0
102.5	1	0
105.0	1	0
107.5	2	0
110.0	2	1
112.5	3	2
115.0	4	3
117.5	4	4
120.0	5	5
122.5	5	5
125.0	6	6
127.5	7	7
130.0	7	7
132.5	7	7
135.0	6	5
137.5	4	4
140.0	2	2
142.5	2	1
145.0	1	0
147.5	1	0
150.0	1	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-IL.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

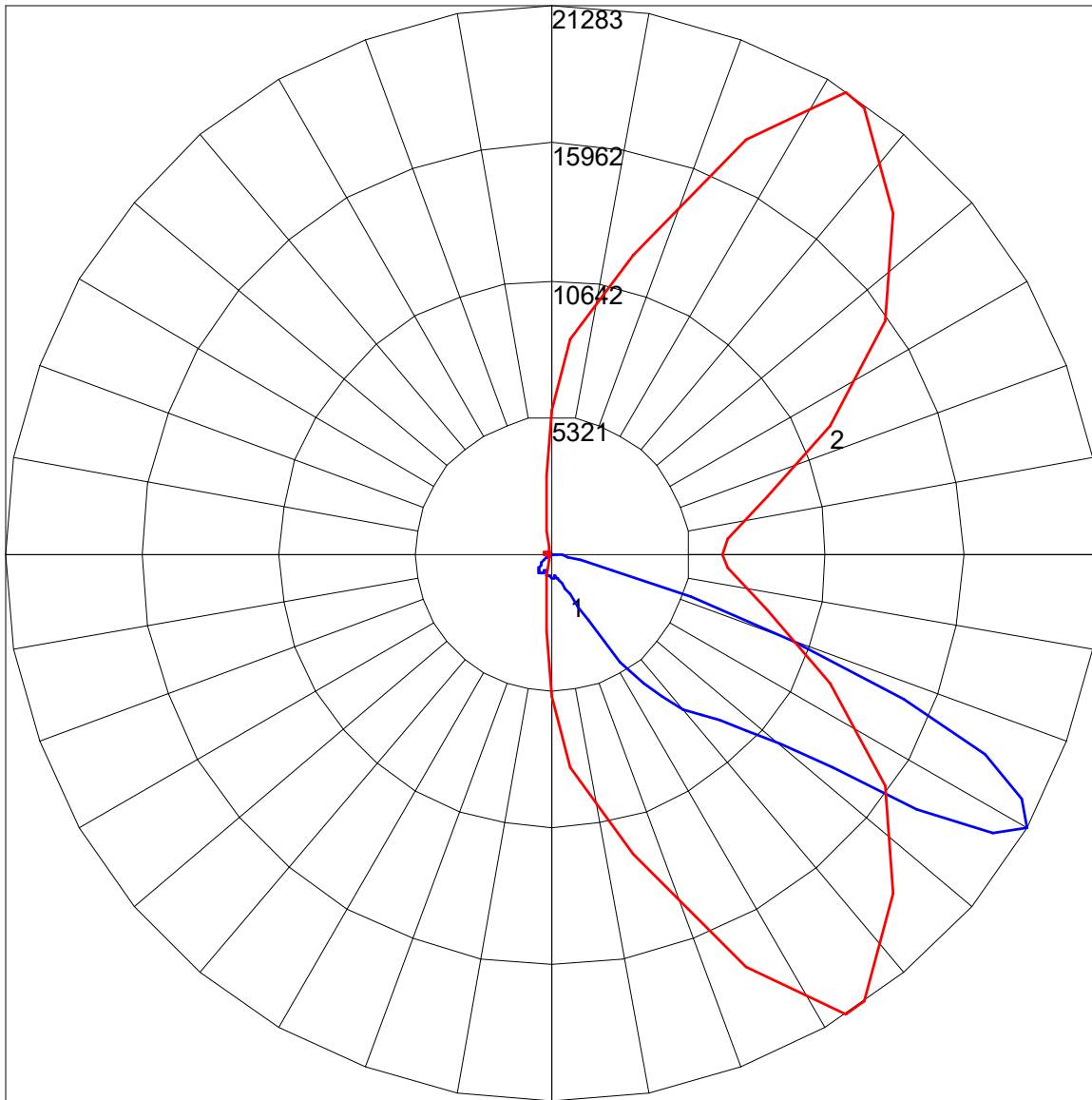
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

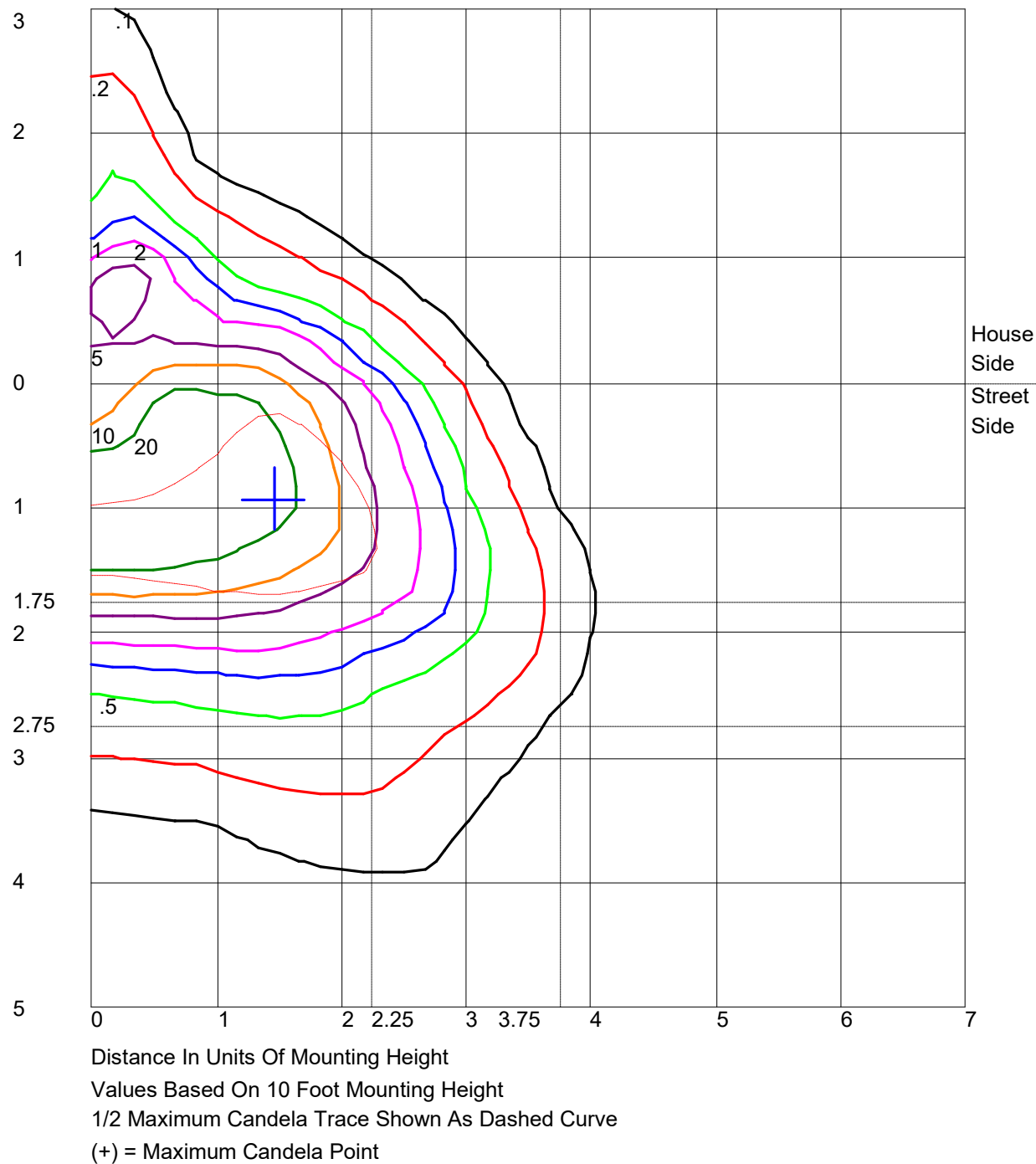
	Lumens	Percent Of Luminaire
Downward Street Side	17410.0	89.6
Downward House Side	1960.1	10.1
Downward Total	19370.1	99.7
Upward Street Side	22.5	0.1
Upward House Side	31.8	0.2
Upward Total	54.3	0.3
Total Flux	19424.4	100.0

POLAR GRAPH

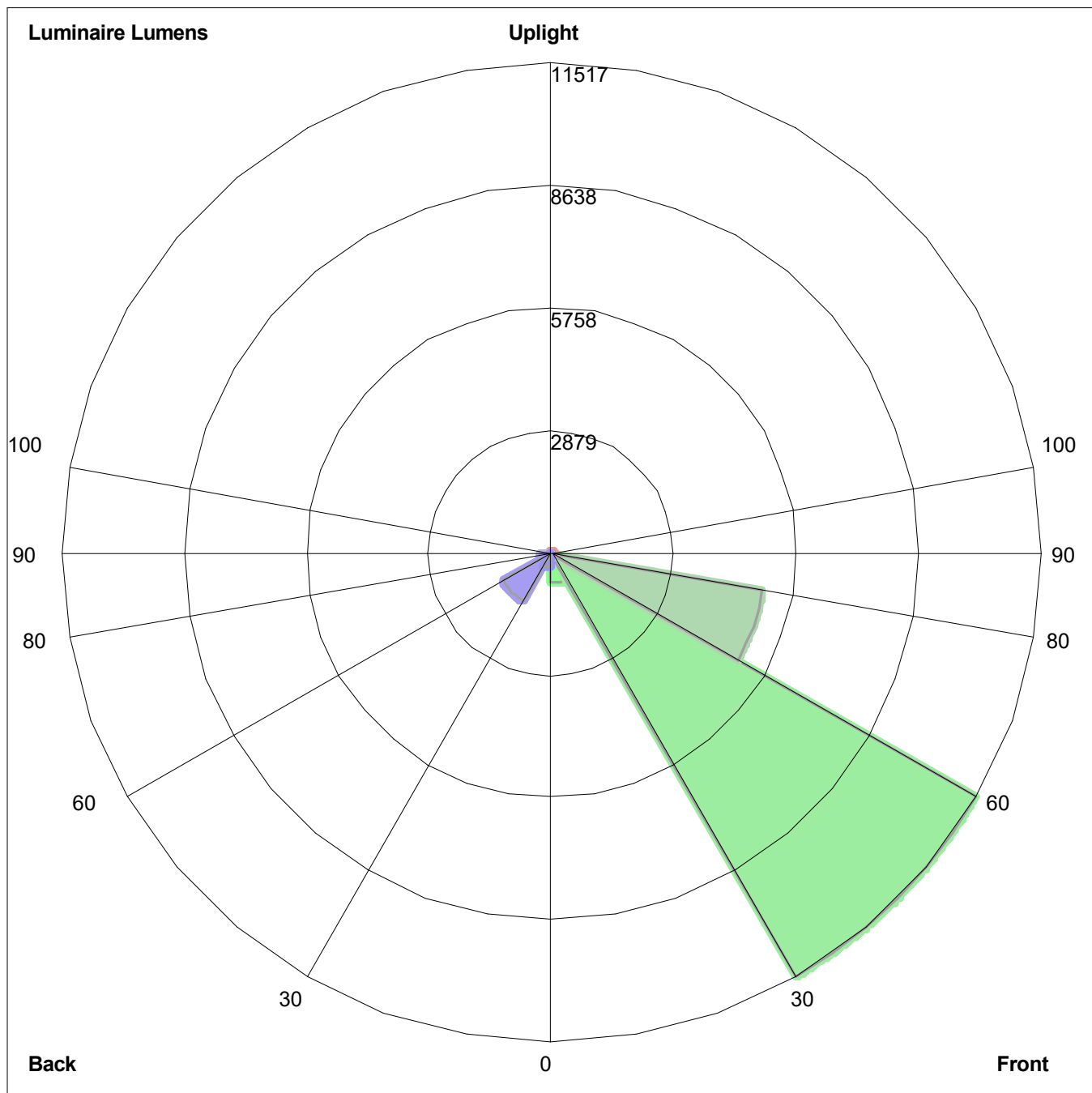


Maximum Candela = 21283 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=721.1, Medium=11516.7, High=5051.6, Very High=120.6
Back: Low=349.9, Medium=1321.6, High=260.0, Very High=28.7
Uplight: Low=13.3, High=41.0

BUG Rating : B2-U2-G3