



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-05L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11771

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-2-LED-05L-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	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5278
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4167
Maximum Candela Angle	77.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	4167
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 67.5V
Maximum Candela At 90 Degrees Vertical	6 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	365 (6.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-05L-50.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	278.0	N.A.	5.3
FM - Front-Medium (30-60)	1956.4	N.A.	37.1
FH - Front-High (60-80)	1181.1	N.A.	22.4
FVH - Front-Very High (80-90)	26.1	N.A.	0.5
BL - Back-Low (0-30)	232.2	N.A.	4.4
BM - Back-Medium (30-60)	1153.6	N.A.	21.9
BH - Back-High (60-80)	414.9	N.A.	7.9
BVH - Back-Very High (80-90)	31.5	N.A.	0.6
UL - Uplight-Low (90-100)	1.5	N.A.	0.0
UH - Uplight-High (100-180)	2.7	N.A.	0.1
Total	5278.0	N.A.	100.0
BUG Rating	B2-U1-G1		

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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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	441	441	441	441	441	441	441	441	441	441
2.5	443	442	442	444	446	445	444	445	439	436
5.0	444	436	453	454	445	439	437	418	410	408
7.5	444	449	454	447	446	439	447	446	442	439
10.0	454	457	472	448	461	468	475	473	459	453
12.5	508	517	507	483	498	497	511	500	499	497
15.0	523	540	536	544	564	539	549	544	554	543
17.5	540	556	548	567	588	608	593	601	607	604
20.0	603	615	606	604	627	644	672	664	667	674
22.5	631	631	642	669	679	695	745	735	744	745
25.0	670	655	674	708	733	751	805	830	822	823
27.5	715	747	758	753	773	829	871	919	925	933
30.0	785	782	780	811	840	905	944	1018	1052	1030
32.5	913	930	877	861	919	959	1044	1141	1173	1163
35.0	1045	1024	1013	994	988	1070	1136	1233	1302	1320
37.5	1253	1237	1162	1116	1136	1170	1244	1343	1415	1429
40.0	1401	1402	1355	1334	1267	1307	1354	1438	1550	1567
42.5	1566	1577	1534	1528	1481	1450	1487	1537	1649	1666
45.0	1706	1718	1695	1662	1661	1640	1635	1636	1777	1781
47.5	1785	1799	1800	1782	1821	1848	1825	1763	1904	1924
50.0	1794	1809	1834	1849	1942	2072	2073	1934	2053	2089
52.5	1716	1731	1781	1817	1981	2259	2365	2173	2242	2292
55.0	1528	1527	1601	1674	1911	2337	2676	2497	2459	2536
57.5	1215	1237	1310	1400	1699	2258	2972	2900	2742	2854
60.0	901	917	976	1055	1332	1987	3165	3306	3105	3241
62.5	630	640	670	723	916	1523	3139	3630	3522	3689
65.0	442	442	451	476	587	972	2761	3698	3907	4073
67.5	312	316	322	329	388	579	2045	3452	4019	4167
70.0	220	224	231	238	286	380	1287	2838	3618	3689
72.5	128	132	137	165	207	269	732	1960	2539	2477
75.0	70	73	71	92	135	199	407	1162	1254	1067
77.5	51	60	50	59	77	128	233	659	571	464
80.0	48	53	43	43	52	85	121	365	297	233
82.5	47	49	37	30	35	59	63	177	156	126
85.0	40	39	27	20	20	36	38	48	68	60
87.5	22	21	16	10	9	15	15	14	16	16
90.0	5	5	4	3	1	1	1	1	1	1
92.5	2	2	2	1	0	0	0	1	1	1
95.0	2	2	1	1	0	0	0	0	0	1
97.5	2	2	1	1	0	0	0	0	0	0
100.0	1	1	1	1	0	0	0	0	0	0
102.5	1	1	1	1	0	0	0	0	0	0
105.0	1	1	1	1	0	0	0	0	0	0
107.5	1	1	1	1	0	0	0	0	0	0
110.0	1	1	1	1	0	0	0	0	0	0
112.5	2	2	1	1	0	0	0	0	0	0
115.0	2	2	2	1	1	0	0	0	0	0
117.5	2	2	2	1	1	0	0	0	0	0
120.0	2	2	2	1	1	0	0	0	0	0
122.5	2	2	2	2	1	0	0	0	0	0
125.0	2	2	2	2	1	1	0	0	0	0
127.5	2	2	2	2	1	1	0	0	0	0
130.0	3	3	2	2	2	1	0	0	1	1

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CANDELA TABULATION - (Cont.)

132.5	3	3	2	2	1	1	0	0	1	1
135.0	2	2	2	2	1	1	0	0	0	1
137.5	2	1	1	1	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	1	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	1	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	441	441	441	441	441	441	441	441	441	441
2.5	438	436	438	439	444	439	434	429	429	437
5.0	423	419	412	400	408	415	410	404	402	395
7.5	422	416	424	425	419	399	376	367	378	370
10.0	439	439	433	439	399	393	375	358	345	351
12.5	475	470	465	452	420	392	364	372	374	384
15.0	511	519	494	463	417	394	405	405	406	407
17.5	576	551	539	496	429	422	443	442	439	451
20.0	643	630	596	530	449	470	469	484	498	518
22.5	744	699	671	587	515	519	514	534	559	582
25.0	819	795	769	634	593	567	573	599	634	656
27.5	934	874	856	700	672	623	646	674	737	767
30.0	1029	981	948	769	737	707	720	766	808	852
32.5	1136	1101	1037	870	802	795	821	854	915	982
35.0	1274	1215	1157	957	879	879	924	932	997	1045
37.5	1412	1369	1269	1062	959	960	1001	1031	1049	1126
40.0	1543	1480	1363	1135	1025	1028	1056	1073	1081	1128
42.5	1642	1598	1445	1170	1074	1067	1076	1086	1047	1065
45.0	1771	1728	1532	1207	1100	1075	1065	1041	965	967
47.5	1937	1887	1627	1241	1111	1051	1012	959	862	845
50.0	2129	2030	1727	1266	1103	1006	940	867	761	733
52.5	2352	2197	1818	1280	1084	952	853	772	673	641
55.0	2615	2391	1905	1286	1053	884	776	698	603	572
57.5	2921	2592	1971	1278	1014	816	707	640	527	506
60.0	3250	2773	2001	1237	945	737	642	572	457	433
62.5	3530	2848	1927	1142	853	650	565	494	378	351
65.0	3641	2722	1702	972	722	538	472	401	297	263
67.5	3347	2292	1300	754	568	421	363	304	219	197
70.0	2567	1537	841	528	422	314	278	225	174	158
72.5	1334	745	486	357	310	238	209	178	134	112
75.0	508	340	308	242	227	188	170	129	87	75
77.5	217	183	199	181	174	154	119	89	70	66

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CANDELA TABULATION - (Cont.)

80.0	131	110	122	141	137	112	82	73	77	86
82.5	80	62	65	111	103	69	65	75	116	114
85.0	39	29	35	73	43	48	54	74	106	81
87.5	13	7	12	15	18	20	20	21	30	16
90.0	1	1	2	3	5	6	5	3	1	1
92.5	1	1	1	3	4	6	5	3	0	0
95.0	0	1	1	2	4	5	4	2	0	0
97.5	0	1	1	2	3	4	3	1	0	0
100.0	0	1	1	1	2	2	2	1	0	0
102.5	0	0	1	1	2	2	1	1	0	0
105.0	0	1	1	1	1	1	1	1	0	0
107.5	0	0	1	1	1	1	1	1	0	0
110.0	0	1	1	1	1	1	1	1	0	0
112.5	0	1	1	1	1	1	1	1	0	0
115.0	0	1	1	1	1	1	1	1	0	0
117.5	0	1	1	1	1	1	1	1	1	0
120.0	0	1	1	1	1	1	1	1	1	1
122.5	1	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	1	1	1
130.0	1	1	1	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	1
137.5	0	0	1	1	1	1	1	1	1	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
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	441	441
2.5	433	428
5.0	398	396
7.5	376	366
10.0	352	357
12.5	381	386
15.0	419	431
17.5	461	482
20.0	532	541
22.5	588	610
25.0	686	713

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CANDELA TABULATION - (Cont.)

27.5	785	816
30.0	885	930
32.5	1011	1046
35.0	1084	1130
37.5	1162	1212
40.0	1140	1187
42.5	1062	1109
45.0	954	998
47.5	833	873
50.0	723	758
52.5	640	669
55.0	565	593
57.5	496	522
60.0	418	431
62.5	327	338
65.0	242	250
67.5	195	201
70.0	161	166
72.5	117	124
75.0	90	102
77.5	82	94
80.0	107	120
82.5	128	136
85.0	86	88
87.5	6	12
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	1
132.5	1	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

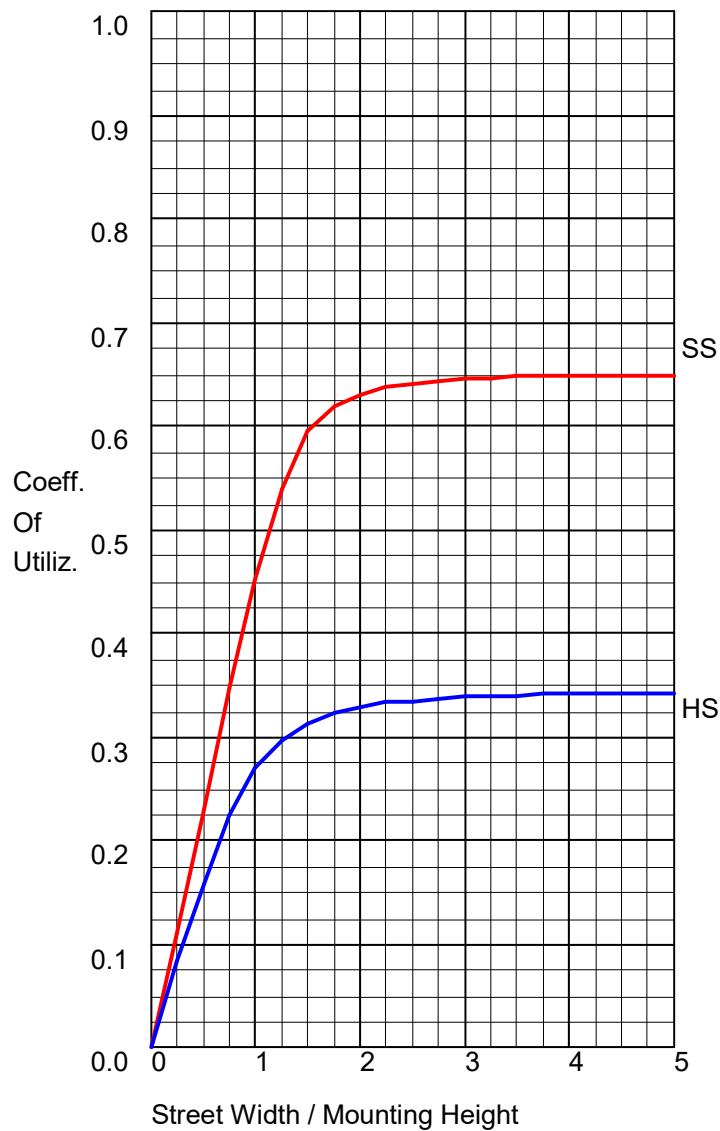
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CANDELA TABULATION - (Cont.)

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

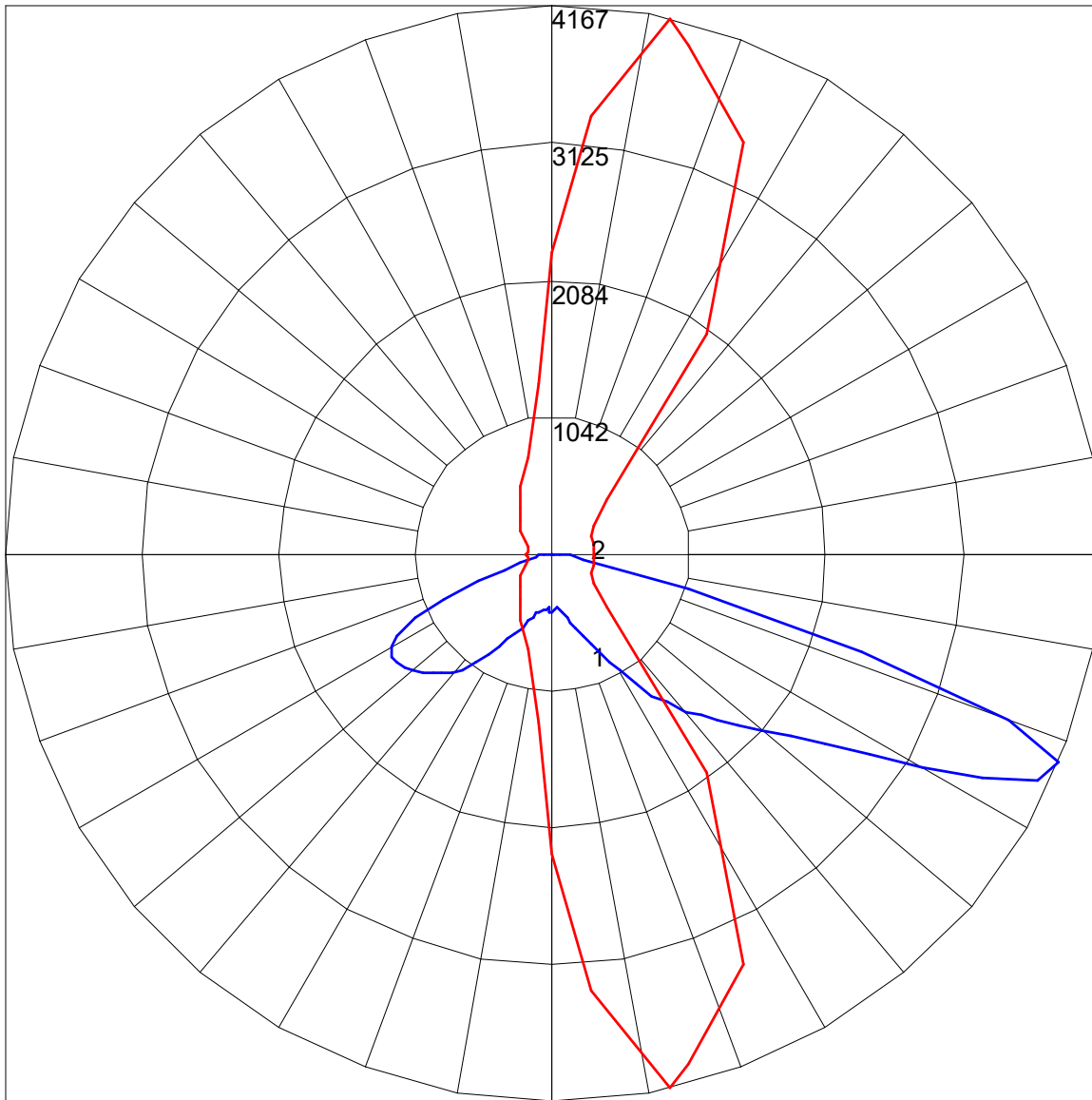
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3441.7	65.2
Downward House Side	1832.2	34.7
Downward Total	5273.9	99.9
Upward Street Side	1.7	0.0
Upward House Side	2.5	0.0
Upward Total	4.2	0.1
Total Flux	5278.1	100.0

POLAR GRAPH

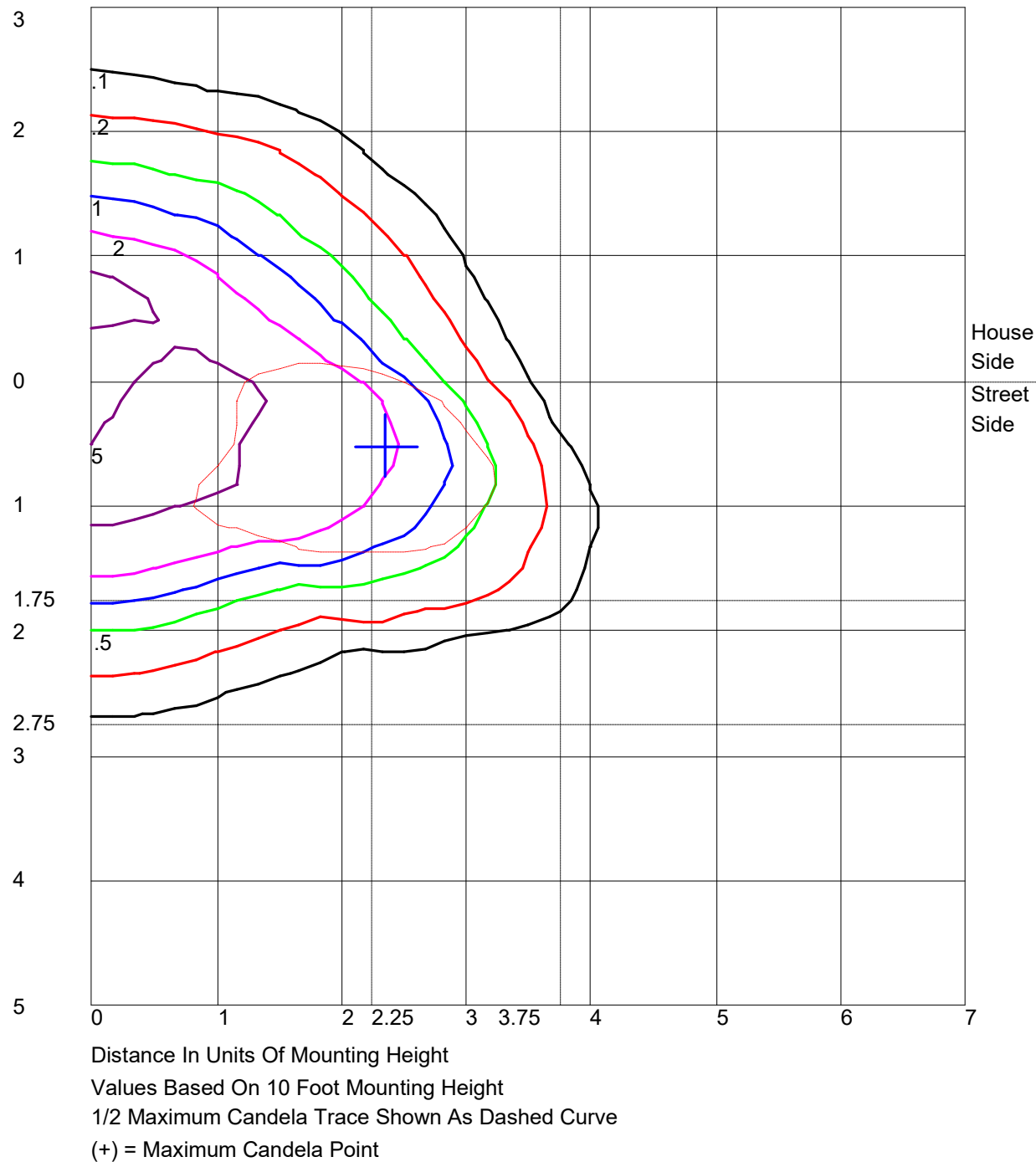


Maximum Candela = 4167 Located At Horizontal Angle = 77.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

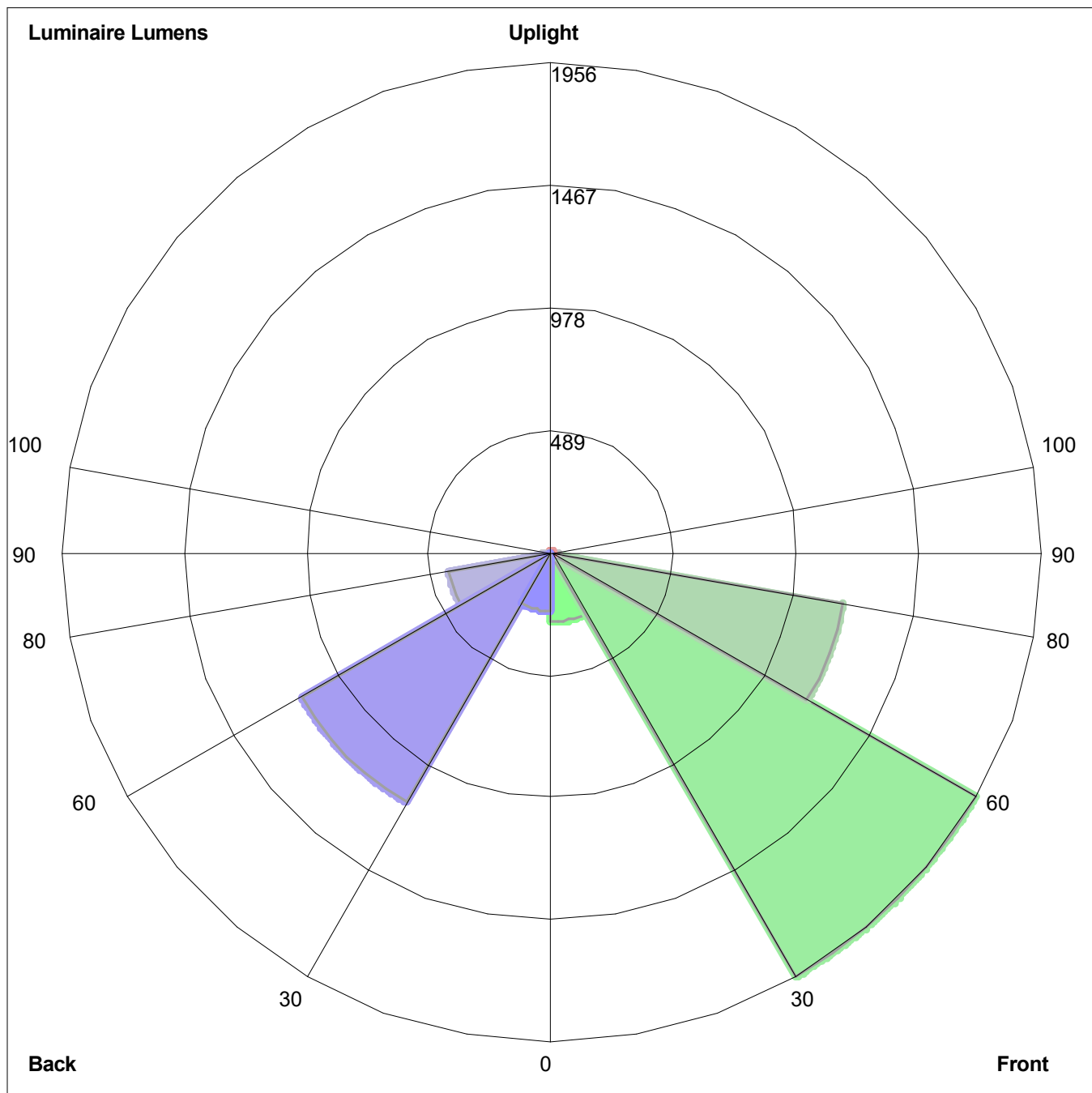
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=278.0, Medium=1956.4, High=1181.1, Very High=26.1
Back: Low=232.2, Medium=1153.6, High=414.9, Very High=31.5
Uplight: Low=1.5, High=2.7

BUG Rating : B2-U1-G1