



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-25L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11754
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/24/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-FT-LED-25L-40
[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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25083
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	227.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14000
Maximum Candela Angle	37.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	14000
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 72.5V
Maximum Candela At 90 Degrees Vertical	203 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4189 (16.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1152.3	N.A.	4.6
FM - Front-Medium (30-60)	7965.4	N.A.	31.8
FH - Front-High (60-80)	8289.3	N.A.	33.0
FVH - Front-Very High (80-90)	489.3	N.A.	2.0
BL - Back-Low (0-30)	1150.7	N.A.	4.6
BM - Back-Medium (30-60)	4108.7	N.A.	16.4
BH - Back-High (60-80)	1715.7	N.A.	6.8
BVH - Back-Very High (80-90)	149.2	N.A.	0.6
UL - Uplight-Low (90-100)	18.4	N.A.	0.1
UH - Uplight-High (100-180)	44.4	N.A.	0.2
Total	25083.4	N.A.	100.0
BUG Rating	B3-U2-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	37.5	45.0	55.0	65.0	75.0
0.0	2227	2227	2227	2227	2227	2227	2227	2227	2227	2227
2.5	2241	2232	2207	2211	2197	2208	2193	2183	2192	2197
5.0	2088	2044	2055	2107	2095	2111	2097	2022	2037	2045
7.5	1967	1943	1991	1917	1898	1885	1887	1927	2047	2056
10.0	1920	1911	1945	1827	1874	1875	1922	1982	2003	2077
12.5	2004	2073	1981	1895	1985	1968	1971	2056	2057	2151
15.0	2054	2181	2118	2152	2206	2165	2083	2156	2163	2288
17.5	2216	2289	2214	2302	2325	2292	2325	2263	2294	2446
20.0	2492	2556	2522	2519	2539	2505	2492	2512	2469	2622
22.5	2794	2710	2776	2839	2866	2786	2762	2815	2673	2810
25.0	3144	3046	3158	3137	3153	3184	3152	3056	3032	3023
27.5	3559	3754	3748	3545	3512	3558	3549	3391	3315	3281
30.0	4189	4120	4025	4035	4004	3920	3972	3866	3644	3551
32.5	4971	5013	4662	4424	4495	4484	4356	4333	4057	3822
35.0	5633	5517	5369	5087	4954	4948	4960	4829	4415	4215
37.5	6357	6362	5942	5650	5599	5571	5487	5294	4873	4418
40.0	6799	6818	6581	6397	6208	6158	6009	5828	5338	4738
42.5	7237	7236	7082	7061	6813	6803	6592	6322	5709	4947
45.0	7654	7653	7616	7566	7445	7375	7229	6845	6078	5186
47.5	8028	8070	8072	8052	8042	7976	7837	7458	6538	5478
50.0	8360	8403	8478	8515	8598	8587	8469	8099	7107	5872
52.5	8633	8667	8804	8905	9125	9159	9065	8838	7816	6381
55.0	8799	8869	9034	9258	9634	9607	9667	9647	8579	6968
57.5	8880	8977	9182	9548	10082	10035	10295	10477	9439	7586
60.0	8940	9028	9290	9690	10484	10579	10990	11320	10237	8191
62.5	9087	9166	9489	9877	10964	11174	11758	12163	10946	8591
65.0	9412	9462	9877	10351	11665	11888	12569	12846	11365	8519
67.5	9725	9817	10479	11250	12637	12787	13312	13179	10954	7537
70.0	9152	9257	10286	12220	13715	13800	13828	12599	9202	5535
72.5	7466	7738	8923	11329	13884	14000	13364	10328	6347	3283
75.0	4982	5277	6646	8969	11836	12110	10828	7166	3801	2125
77.5	2678	2866	3838	5761	7795	8002	6908	4423	2420	1403
80.0	1339	1486	2423	3391	4033	4189	3827	2724	1540	889
82.5	832	876	1536	2002	1980	2125	2165	1454	929	501
85.0	618	656	1025	1212	1321	1267	997	649	453	277
87.5	413	450	684	620	720	625	212	227	140	120
90.0	109	153	203	72	62	52	27	13	8	10
92.5	21	22	18	12	10	11	10	8	8	8
95.0	9	9	10	11	10	11	10	8	7	8
97.5	8	8	9	10	9	10	9	8	7	8
100.0	7	7	8	9	8	8	9	8	7	8
102.5	6	7	7	7	7	8	8	7	7	8
105.0	6	6	7	7	7	7	7	7	7	8
107.5	7	6	7	7	7	7	7	7	7	8
110.0	7	7	7	7	7	7	7	7	7	8
112.5	7	7	7	7	7	7	8	7	7	8
115.0	8	8	8	8	8	8	8	7	8	9
117.5	9	9	9	9	8	8	8	8	8	9
120.0	10	10	10	10	9	9	9	8	8	10
122.5	11	11	11	11	9	9	9	8	9	10
125.0	11	11	11	11	10	10	10	8	9	10
127.5	11	11	11	11	11	11	10	9	9	11
130.0	12	12	12	11	11	11	11	9	9	12

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CANDELA TABULATION - (Cont.)

132.5	12	12	12	12	11	11	11	9	9	12
135.0	11	11	10	10	10	10	9	8	8	10
137.5	6	6	5	6	6	7	6	6	6	7
140.0	2	2	3	4	5	5	5	5	5	6
142.5	1	1	3	4	4	4	4	4	5	5
145.0	1	1	3	4	4	4	4	4	4	5
147.5	1	1	3	4	4	4	4	4	4	5
150.0	2	1	3	4	4	4	4	4	4	5
152.5	2	1	3	4	4	4	4	4	4	5
155.0	2	1	3	4	4	4	4	4	4	4
157.5	1	1	3	4	4	4	4	4	4	4
160.0	1	1	3	3	4	3	3	3	4	4
162.5	1	1	3	3	3	3	3	3	3	4
165.0	1	1	3	3	3	3	3	3	3	4
167.5	1	1	3	3	4	4	4	3	4	4
170.0	1	1	3	3	4	4	4	4	4	4
172.5	1	1	3	3	4	4	4	4	4	4
175.0	1	1	2	4	4	4	4	4	4	4
177.5	1	1	3	4	4	4	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	2227	2227	2227	2227	2227	2227	2227	2227	2227	2227
2.5	2205	2211	2211	2188	2213	2216	2221	2234	2215	2225
5.0	2078	2077	2068	2074	2090	2162	2166	2143	2153	2116
7.5	2052	2051	2076	2163	2176	2048	2011	1986	2036	2053
10.0	2049	2075	2115	2265	2084	2046	2008	1936	1987	2043
12.5	2166	2200	2232	2275	2134	2070	2035	2115	2226	2243
15.0	2294	2331	2321	2312	2167	2137	2262	2366	2432	2485
17.5	2459	2455	2468	2388	2234	2328	2493	2536	2561	2604
20.0	2714	2725	2720	2536	2353	2593	2704	2701	2782	2831
22.5	3033	2992	2950	2769	2662	2836	2801	2899	2939	2916
25.0	3214	3239	3259	2957	2989	3013	3017	3007	3037	3109
27.5	3477	3417	3454	3116	3305	3228	3161	3102	3241	3289
30.0	3653	3655	3621	3306	3515	3470	3316	3315	3400	3479
32.5	3800	3855	3774	3524	3668	3625	3467	3429	3493	3722
35.0	4097	4004	3963	3693	3796	3744	3649	3593	3746	3987
37.5	4267	4216	4074	3934	3874	3822	3721	3765	3903	4241
40.0	4334	4258	4102	4003	3870	3847	3804	3866	4093	4460
42.5	4394	4261	4073	3915	3796	3813	3749	3934	4213	4295
45.0	4506	4307	4086	3844	3647	3711	3677	3865	4246	3944
47.5	4646	4383	4107	3770	3481	3568	3524	3735	4039	3590
50.0	4875	4519	4172	3695	3313	3423	3370	3620	3732	3293
52.5	5150	4701	4261	3631	3144	3239	3195	3470	3448	3016
55.0	5496	4905	4376	3579	2951	3034	3016	3248	3145	2763
57.5	5828	5103	4500	3510	2735	2836	2837	3016	2850	2484
60.0	6095	5213	4476	3377	2531	2646	2651	2763	2500	2261
62.5	6093	5065	4061	3152	2319	2455	2456	2480	2220	2051
65.0	5679	4400	3208	2783	2093	2243	2227	2226	1975	1880
67.5	4525	3311	2269	2268	1847	1996	2022	2021	1752	1723
70.0	2893	2130	1571	1757	1572	1726	1812	1807	1556	1565
72.5	1646	1236	1082	1308	1278	1447	1580	1586	1366	1389
75.0	1149	812	736	962	1006	1158	1322	1334	1095	1001
77.5	759	534	514	700	775	929	1050	893	657	673

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CANDELA TABULATION - (Cont.)

80.0	421	327	374	526	610	727	626	588	500	521
82.5	279	219	269	396	478	419	433	446	344	389
85.0	165	114	162	267	253	268	289	262	176	259
87.5	59	37	73	113	124	131	117	115	84	120
90.0	10	9	21	28	33	31	25	18	9	10
92.5	9	9	20	29	34	31	25	17	7	6
95.0	8	9	19	27	31	29	23	17	8	7
97.5	7	9	16	23	27	25	21	16	9	8
100.0	7	9	14	19	23	22	19	15	10	9
102.5	8	9	11	15	18	19	17	14	10	10
105.0	8	9	10	13	15	16	15	14	10	10
107.5	8	9	10	12	14	15	14	13	11	10
110.0	9	10	10	12	13	14	13	13	11	10
112.5	9	10	11	12	13	14	14	13	11	11
115.0	9	10	11	12	14	15	15	15	13	12
117.5	10	11	11	13	14	16	16	16	14	13
120.0	10	11	12	14	15	16	17	16	15	13
122.5	11	12	13	14	16	16	17	17	15	14
125.0	12	13	14	14	15	16	17	17	15	14
127.5	13	13	14	14	15	16	16	16	16	14
130.0	13	13	14	15	16	16	16	16	15	14
132.5	13	14	14	15	15	15	15	14	14	13
135.0	12	12	13	13	13	13	13	12	12	11
137.5	8	8	8	9	8	7	7	6	5	5
140.0	6	6	7	7	6	5	4	3	2	1
142.5	6	6	6	6	5	4	3	2	1	0
145.0	5	6	6	6	5	4	3	2	1	0
147.5	5	6	6	6	5	4	3	2	1	0
150.0	5	5	6	5	5	4	3	2	1	0
152.5	5	5	5	5	4	3	3	1	0	0
155.0	5	5	5	5	4	3	2	1	0	0
157.5	5	5	5	5	4	3	2	1	0	0
160.0	4	5	5	5	4	3	2	0	0	0
162.5	4	5	5	4	4	2	2	0	0	0
165.0	4	5	5	4	4	2	1	0	0	0
167.5	4	5	5	4	4	2	1	0	0	0
170.0	5	5	5	5	4	2	1	0	0	0
172.5	5	5	5	5	4	3	1	0	0	0
175.0	5	5	5	4	3	2	1	0	0	0
177.5	5	5	5	4	3	2	1	0	0	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	2227	2227
2.5	2248	2250
5.0	2093	2088
7.5	2036	2036
10.0	2055	2090
12.5	2340	2318
15.0	2576	2532
17.5	2704	2700
20.0	2896	2905
22.5	3019	2973
25.0	3204	3193

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CANDELA TABULATION - (Cont.)

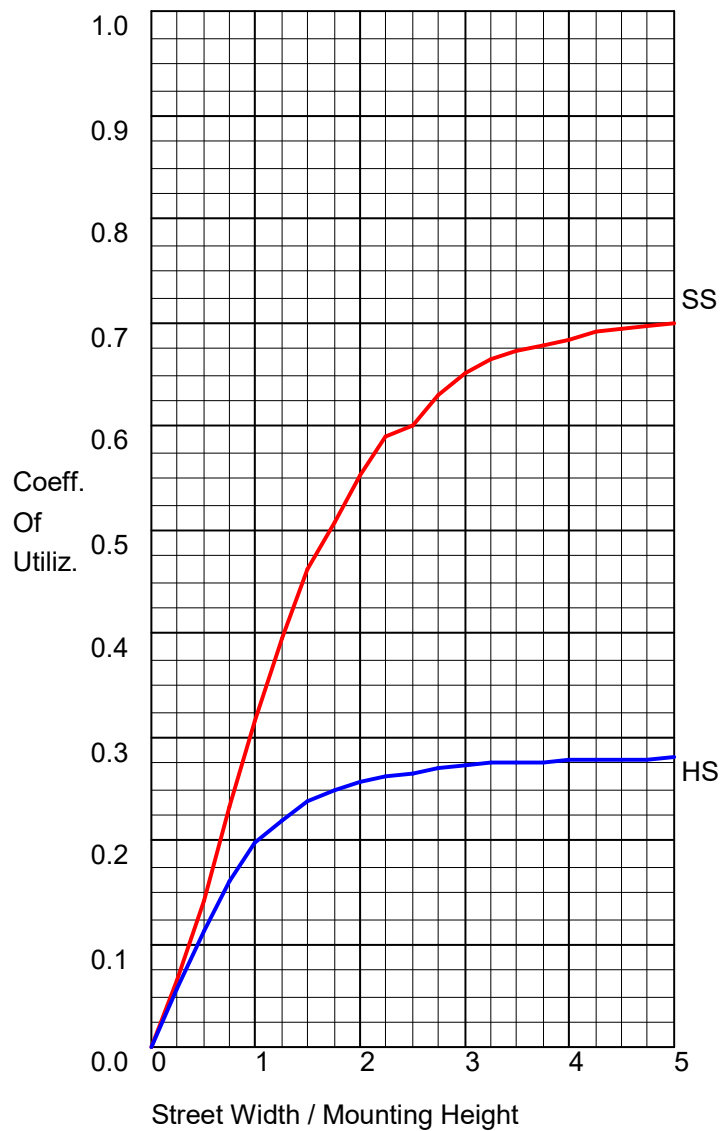
27.5	3390	3425
30.0	3617	3572
32.5	3936	3965
35.0	4134	4139
37.5	4451	4419
40.0	4379	4323
42.5	3966	3895
45.0	3621	3565
47.5	3356	3306
50.0	3113	3083
52.5	2891	2853
55.0	2675	2610
57.5	2403	2357
60.0	2215	2176
62.5	2048	2022
65.0	1914	1889
67.5	1799	1774
70.0	1689	1672
72.5	1529	1532
75.0	1114	1095
77.5	869	891
80.0	720	762
82.5	568	605
85.0	400	437
87.5	227	273
90.0	13	28
92.5	3	3
95.0	4	4
97.5	5	5
100.0	7	7
102.5	8	7
105.0	8	8
107.5	8	8
110.0	8	8
112.5	8	8
115.0	10	9
117.5	10	10
120.0	11	11
122.5	11	11
125.0	11	11
127.5	11	11
130.0	11	11
132.5	11	11
135.0	8	8
137.5	3	3
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	3	3

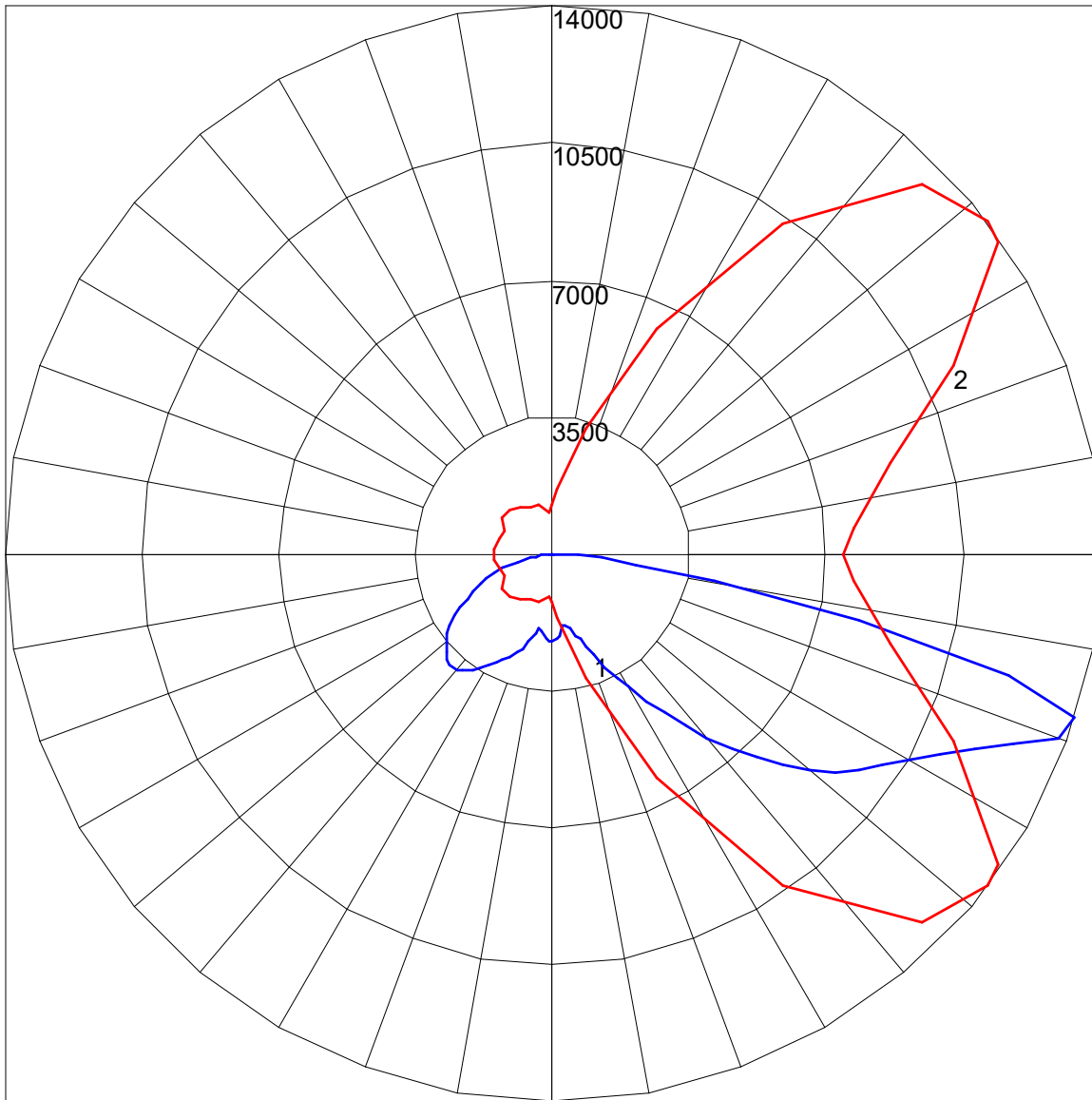
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

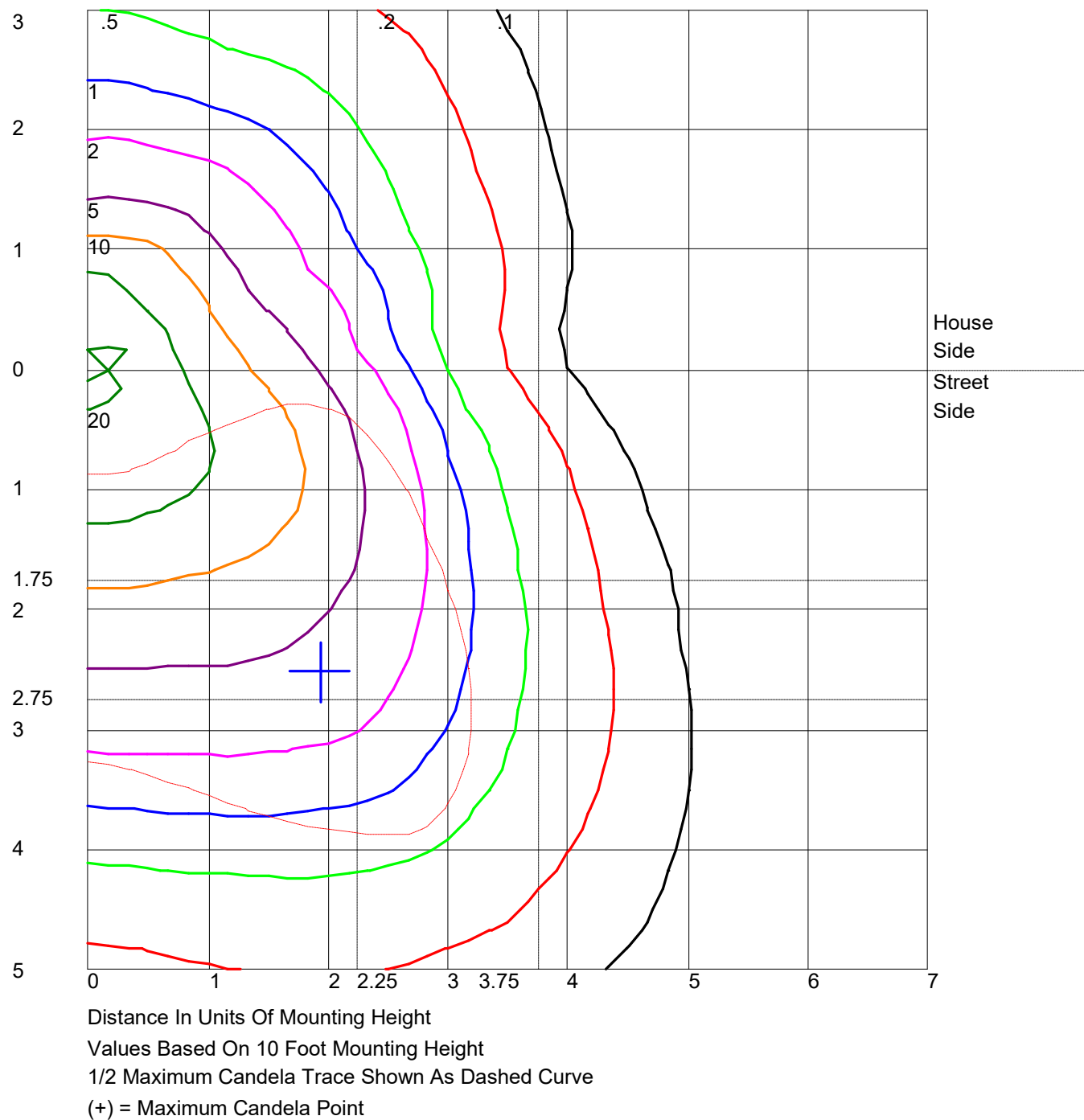
	Lumens	Percent Of Luminaire
Downward Street Side	17896.4	71.3
Downward House Side	7124.3	28.4
Downward Total	25020.7	99.8
Upward Street Side	27.4	0.1
Upward House Side	35.4	0.1
Upward Total	62.8	0.3
Total Flux	25083.5	100.0

POLAR GRAPH

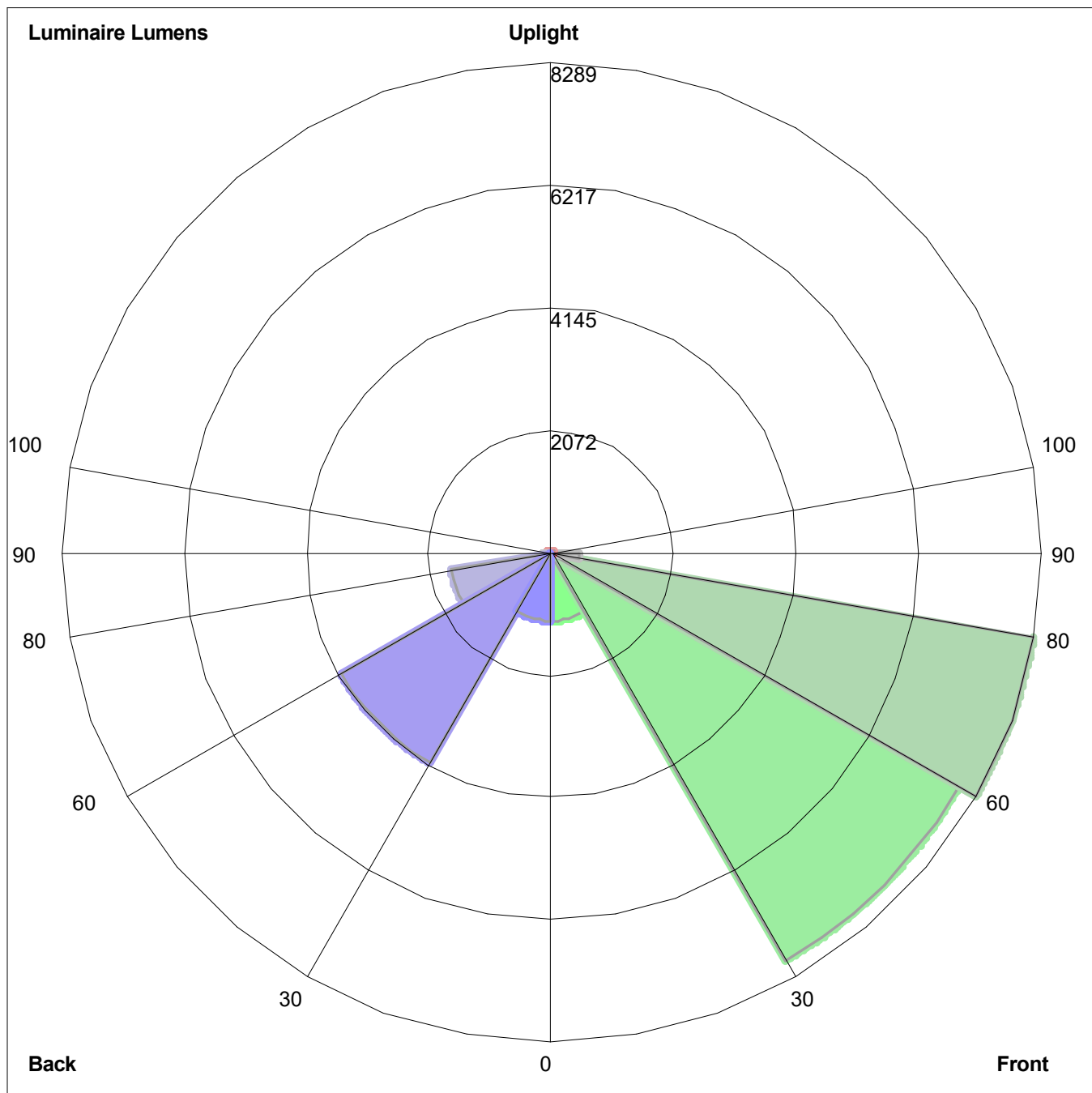


Maximum Candela = 14000 Located At Horizontal Angle = 37.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1152.3, Medium=7965.4, High=8289.3, Very High=489.3
Back: Low=1150.7, Medium=4108.7, High=1715.7, Very High=149.2
Uplight: Low=18.4, High=44.4

BUG Rating : B3-U2-G4