



IES ROAD REPORT

PHOTOMETRIC FILENAME : TXWP-13L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3757

[TESTLAB] TUV SUD America

[ISSUE DATE] 8/10/2020

[TEST DATE] 8/22/2019 11:33:52 AM

[MANUFAC] LSI INDUSTRIES, INC.

[OTHER] TEST PROCEDURE: IESNA

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[LUMCAT] TXWP-13L-30

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12511
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	115
Ballast Factor	1.00
Upward Waste Light Ratio	0.21
Maximum Candela	4327
Maximum Candela Angle	360H 60V
Maximum Candela (<90 Degrees Vertical)	4327
Maximum Candela Angle (<90 Degrees Vertical)	360H 60V
Maximum Candela At 90 Degrees Vertical	3249 (26.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3736 (29.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1088.7	N.A.	8.7
FM - Front-Medium (30-60)	3376.1	N.A.	27.0
FH - Front-High (60-80)	2701.8	N.A.	21.6
FVH - Front-Very High (80-90)	1154.4	N.A.	9.2
BL - Back-Low (0-30)	574.5	N.A.	4.6
BM - Back-Medium (30-60)	748.7	N.A.	6.0
BH - Back-High (60-80)	198.9	N.A.	1.6
BVH - Back-Very High (80-90)	28.8	N.A.	0.2
UL - Uplight-Low (90-100)	952.6	N.A.	7.6
UH - Uplight-High (100-180)	1686.1	N.A.	13.5
Total	12510.6	N.A.	100.0
BUG Rating	B2-U5-G5		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	2073	2073	2073	2073	2073	2073	2073	2073	2073	2073
2.5	2215	2167	2141	2107	2066	2021	1980	1956	1986	1956
5.0	2327	2270	2214	2140	2057	1967	1887	1834	1852	1834
7.5	2439	2367	2288	2170	2042	1908	1787	1708	1719	1708
10.0	2562	2471	2353	2198	2023	1843	1683	1576	1577	1576
12.5	2698	2582	2419	2220	2000	1775	1574	1443	1433	1443
15.0	2848	2708	2491	2234	1971	1701	1464	1307	1288	1307
17.5	2997	2837	2565	2245	1937	1625	1351	1175	1144	1175
20.0	3148	2968	2646	2251	1897	1545	1239	1082	1063	1082
22.5	3289	3098	2725	2255	1854	1464	1127	1011	989	1011
25.0	3429	3219	2802	2256	1808	1381	1049	941	916	941
27.5	3558	3334	2871	2255	1757	1296	986	874	847	874
30.0	3669	3436	2937	2253	1703	1211	924	809	777	809
32.5	3766	3525	2993	2249	1645	1128	864	744	711	744
35.0	3853	3601	3044	2242	1586	1043	807	683	647	683
37.5	3936	3667	3084	2235	1525	959	749	622	589	622
40.0	4009	3729	3113	2224	1460	897	693	561	522	561
42.5	4071	3780	3131	2210	1394	844	640	494	458	494
45.0	4123	3819	3140	2191	1325	792	587	438	406	438
47.5	4176	3849	3143	2167	1257	741	531	386	352	386
50.0	4227	3880	3139	2136	1189	688	469	332	309	332
52.5	4272	3911	3127	2101	1119	636	413	288	269	288
55.0	4302	3931	3108	2057	1049	584	361	246	226	246
57.5	4322	3937	3085	2009	979	532	307	210	190	210
60.0	4327	3931	3057	1954	906	480	261	171	150	171
62.5	4310	3910	3019	1896	834	427	219	135	119	135
65.0	4269	3873	2969	1837	758	373	186	102	95	102
67.5	4212	3816	2907	1772	682	318	156	74	65	74
70.0	4142	3746	2837	1703	604	268	126	44	32	44
72.5	4059	3663	2754	1629	525	220	95	7	1	7
75.0	3959	3570	2667	1548	447	181	60	1	0	1
77.5	3847	3469	2571	1462	371	147	34	0	1	0
80.0	3736	3362	2476	1375	299	118	30	1	0	1
82.5	3623	3254	2380	1290	235	97	26	1	1	1
85.0	3509	3142	2278	1204	182	86	24	1	1	1
87.5	3389	3027	2176	1116	146	78	21	1	1	1
90.0	3249	2898	2066	1031	128	72	19	1	1	1
92.5	3095	2765	1958	951	120	66	17	1	2	1
95.0	2926	2618	1844	875	112	61	15	1	2	1
97.5	2749	2460	1727	803	106	56	13	1	2	1
100.0	2573	2304	1614	735	100	52	12	1	2	1
102.5	2420	2162	1506	672	94	47	10	1	2	1
105.0	2265	2022	1402	610	87	44	8	1	1	1
107.5	2103	1883	1299	552	81	40	7	1	1	1
110.0	1942	1747	1202	499	75	37	6	1	1	1
112.5	1777	1610	1107	449	69	34	5	1	2	1
115.0	1623	1469	1018	400	63	31	4	1	2	1
117.5	1472	1335	925	351	58	28	4	1	2	1
120.0	1346	1220	830	300	52	26	3	1	3	1
122.5	1218	1100	747	249	47	23	3	2	3	2
125.0	1094	994	674	203	42	20	3	2	3	2
127.5	999	905	599	161	38	18	3	3	3	3
130.0	899	812	528	121	34	16	3	3	4	3

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CANDELA TABULATION - (Cont.)

132.5	807	726	459	85	30	14	3	4	4	4
135.0	718	641	398	53	26	13	3	4	5	4
137.5	630	561	339	34	22	11	4	4	5	4
140.0	547	492	280	27	19	9	4	5	6	5
142.5	476	422	228	22	15	8	4	5	6	5
145.0	405	357	177	18	11	7	5	6	6	6
147.5	344	300	124	15	7	5	5	6	6	6
150.0	287	243	68	12	5	5	5	6	6	6
152.5	223	182	21	9	4	4	5	6	6	6
155.0	150	110	6	7	4	4	5	6	6	6
157.5	67	36	5	5	4	5	5	6	6	6
160.0	7	4	3	4	4	5	5	6	6	6
162.5	2	3	4	4	4	5	6	6	6	6
165.0	3	3	4	4	5	5	6	6	6	6
167.5	3	4	4	5	5	5	6	6	6	6
170.0	4	4	4	5	5	5	6	6	6	6
172.5	4	4	5	5	5	6	6	6	6	6
175.0	5	5	5	5	6	6	6	6	6	6
177.5	5	5	5	6	6	5	6	6	6	6
180.0	5	5	5	5	5	5	5	5	5	5

Vert. Angles **Horizontal Angles**

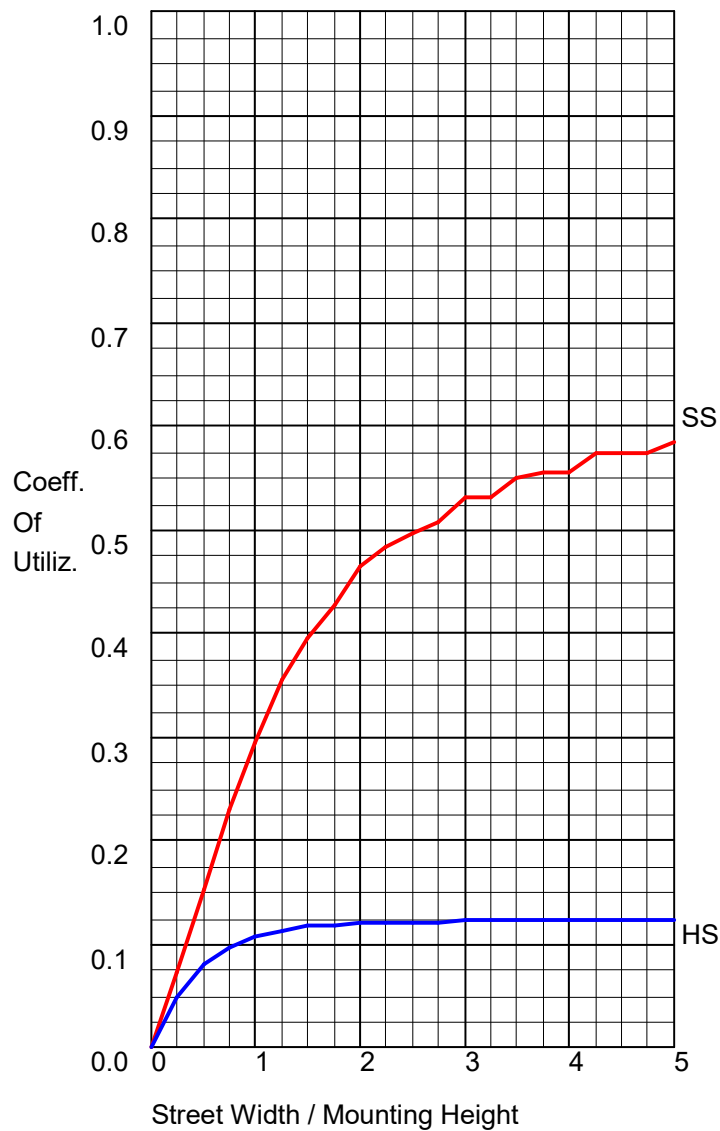
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	2073	2073	2073	2073	2073	2073	2073
2.5	1980	2021	2066	2107	2141	2167	2215
5.0	1887	1967	2057	2140	2214	2270	2327
7.5	1787	1908	2042	2170	2288	2367	2439
10.0	1683	1843	2023	2198	2353	2471	2562
12.5	1574	1775	2000	2220	2419	2582	2698
15.0	1464	1701	1971	2234	2491	2708	2848
17.5	1351	1625	1937	2245	2565	2837	2997
20.0	1239	1545	1897	2251	2646	2968	3148
22.5	1127	1464	1854	2255	2725	3098	3289
25.0	1049	1381	1808	2256	2802	3219	3429
27.5	986	1296	1757	2255	2871	3334	3558
30.0	924	1211	1703	2253	2937	3436	3669
32.5	864	1128	1645	2249	2993	3525	3766
35.0	807	1043	1586	2242	3044	3601	3853
37.5	749	959	1525	2235	3084	3667	3936
40.0	693	897	1460	2224	3113	3729	4009
42.5	640	844	1394	2210	3131	3780	4071
45.0	587	792	1325	2191	3140	3819	4123
47.5	531	741	1257	2167	3143	3849	4176
50.0	469	688	1189	2136	3139	3880	4227
52.5	413	636	1119	2101	3127	3911	4272
55.0	361	584	1049	2057	3108	3931	4302
57.5	307	532	979	2009	3085	3937	4322
60.0	261	480	906	1954	3057	3931	4327
62.5	219	427	834	1896	3019	3910	4310
65.0	186	373	758	1837	2969	3873	4269
67.5	156	318	682	1772	2907	3816	4212
70.0	126	268	604	1703	2837	3746	4142
72.5	95	220	525	1629	2754	3663	4059
75.0	60	181	447	1548	2667	3570	3959
77.5	34	147	371	1462	2571	3469	3847

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CANDELA TABULATION - (Cont.)

80.0	30	118	299	1375	2476	3362	3736
82.5	26	97	235	1290	2380	3254	3623
85.0	24	86	182	1204	2278	3142	3509
87.5	21	78	146	1116	2176	3027	3389
90.0	19	72	128	1031	2066	2898	3249
92.5	17	66	120	951	1958	2765	3095
95.0	15	61	112	875	1844	2618	2926
97.5	13	56	106	803	1727	2460	2749
100.0	12	52	100	735	1614	2304	2573
102.5	10	47	94	672	1506	2162	2420
105.0	8	44	87	610	1402	2022	2265
107.5	7	40	81	552	1299	1883	2103
110.0	6	37	75	499	1202	1747	1942
112.5	5	34	69	449	1107	1610	1777
115.0	4	31	63	400	1018	1469	1623
117.5	4	28	58	351	925	1335	1472
120.0	3	26	52	300	830	1220	1346
122.5	3	23	47	249	747	1100	1218
125.0	3	20	42	203	674	994	1094
127.5	3	18	38	161	599	905	999
130.0	3	16	34	121	528	812	899
132.5	3	14	30	85	459	726	807
135.0	3	13	26	53	398	641	718
137.5	4	11	22	34	339	561	630
140.0	4	9	19	27	280	492	547
142.5	4	8	15	22	228	422	476
145.0	5	7	11	18	177	357	405
147.5	5	5	7	15	124	300	344
150.0	5	5	5	12	68	243	287
152.5	5	4	4	9	21	182	223
155.0	5	4	4	7	6	110	150
157.5	5	5	4	5	5	36	67
160.0	5	5	4	4	3	4	7
162.5	6	5	4	4	4	3	2
165.0	6	5	5	4	4	3	3
167.5	6	5	5	5	4	4	3
170.0	6	5	5	5	4	4	4
172.5	6	6	5	5	5	4	4
175.0	6	6	6	5	5	5	5
177.5	6	5	6	6	5	5	5
180.0	5	5	5	5	5	5	5

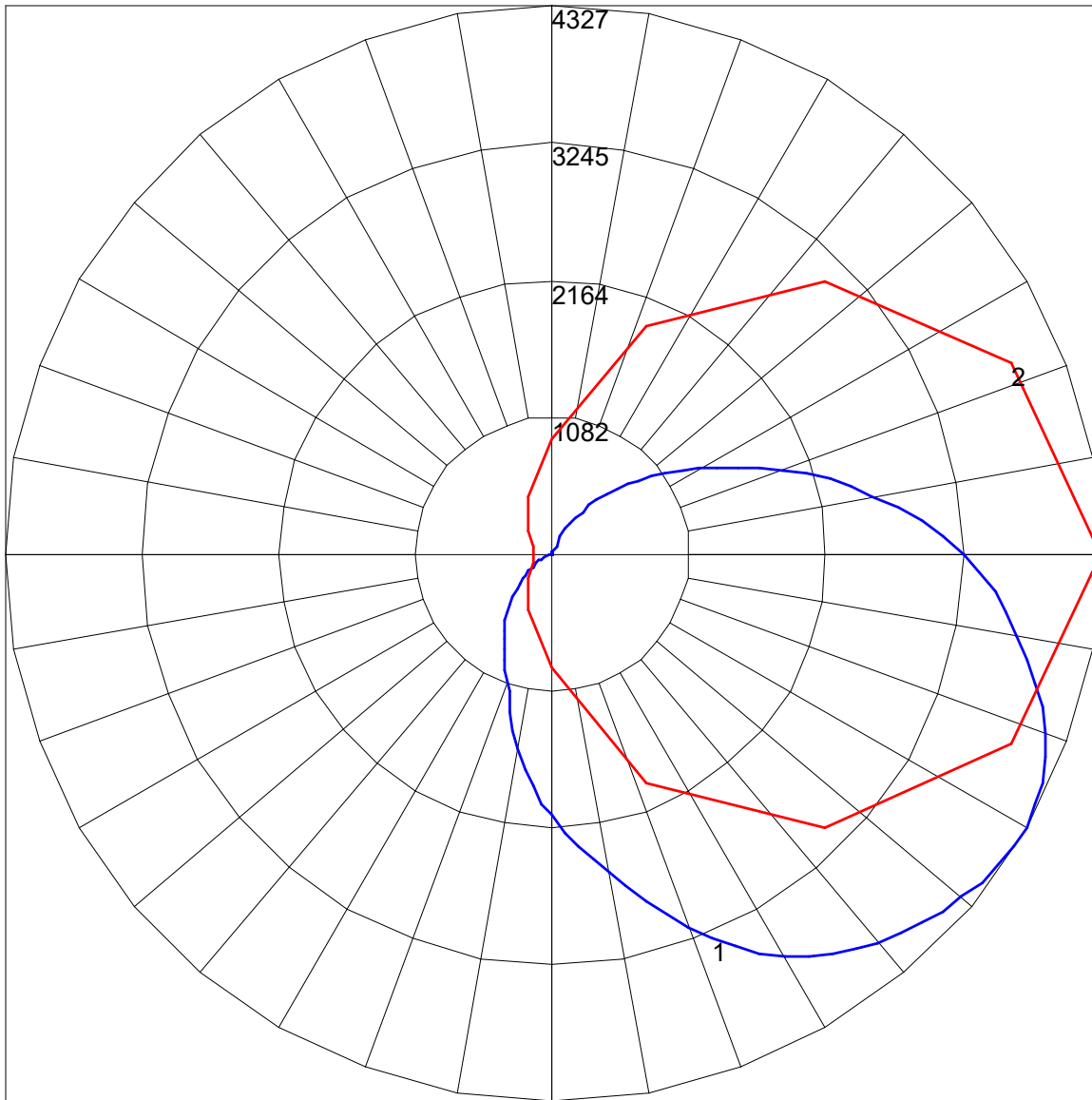
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

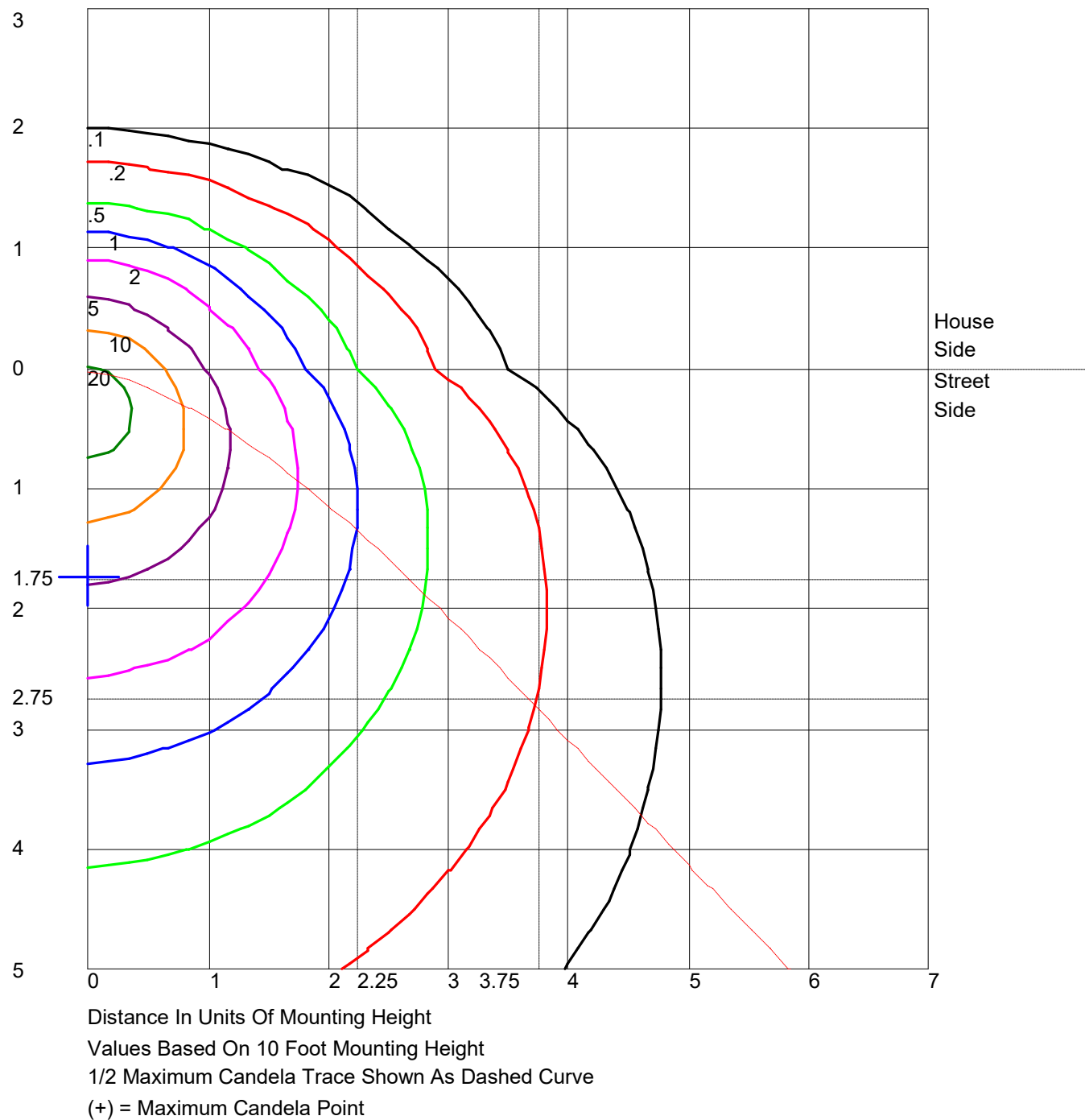
	Lumens	Percent Of Luminaire
Downward Street Side	8321.0	66.5
Downward House Side	1550.9	12.4
Downward Total	9871.9	78.9
Upward Street Side	2585.6	20.7
Upward House Side	53.1	0.4
Upward Total	2638.7	21.1
Total Flux	12510.6	100.0

POLAR GRAPH

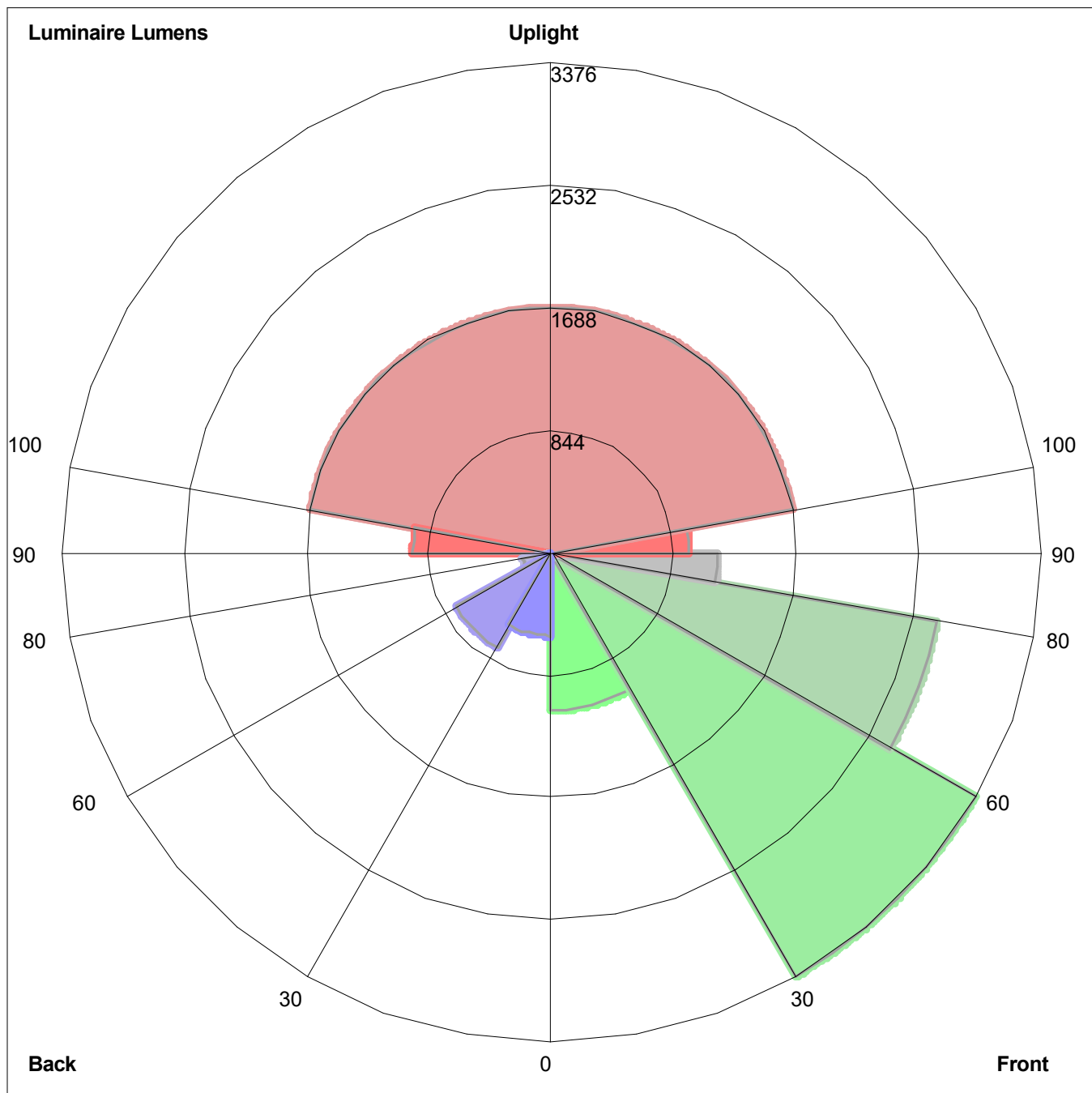


Maximum Candela = 4327 Located At Horizontal Angle = 360, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1088.7, Medium=3376.1, High=2701.8, Very High=1154.4
Back: Low=574.5, Medium=748.7, High=198.9, Very High=28.8
Uplight: Low=952.6, High=1686.1

BUG Rating : B2-U5-G5