



IES ROAD REPORT

PHOTOMETRIC FILENAME : TXWP-10L-40.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

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[LUMCAT] TXWP-10L-30

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10181
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	82
Ballast Factor	1.00
Upward Waste Light Ratio	0.21
Maximum Candela	3521
Maximum Candela Angle	360H 60V
Maximum Candela (<90 Degrees Vertical)	3521
Maximum Candela Angle (<90 Degrees Vertical)	360H 60V
Maximum Candela At 90 Degrees Vertical	2644 (26.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3040 (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)	886.0	N.A.	8.7
FM - Front-Medium (30-60)	2747.3	N.A.	27.0
FH - Front-High (60-80)	2198.6	N.A.	21.6
FVH - Front-Very High (80-90)	939.4	N.A.	9.2
BL - Back-Low (0-30)	467.5	N.A.	4.6
BM - Back-Medium (30-60)	609.3	N.A.	6.0
BH - Back-High (60-80)	161.8	N.A.	1.6
BVH - Back-Very High (80-90)	23.5	N.A.	0.2
UL - Uplight-Low (90-100)	775.1	N.A.	7.6
UH - Uplight-High (100-180)	1372.1	N.A.	13.5
Total	10180.6	N.A.	100.0
BUG Rating	B1-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	1687	1687	1687	1687	1687	1687	1687	1687	1687	1687
2.5	1803	1763	1742	1715	1681	1644	1611	1591	1616	1591
5.0	1894	1847	1802	1741	1674	1600	1536	1493	1507	1493
7.5	1985	1926	1862	1766	1662	1552	1454	1390	1399	1390
10.0	2085	2011	1915	1789	1646	1500	1370	1282	1283	1282
12.5	2196	2101	1968	1806	1627	1444	1281	1174	1166	1174
15.0	2317	2203	2027	1818	1604	1384	1191	1063	1048	1063
17.5	2438	2308	2087	1827	1576	1322	1100	956	931	956
20.0	2562	2415	2153	1832	1544	1257	1009	880	865	880
22.5	2677	2521	2218	1835	1509	1192	917	822	805	822
25.0	2790	2620	2280	1836	1471	1124	854	766	746	766
27.5	2896	2713	2337	1835	1430	1055	802	711	689	711
30.0	2985	2796	2390	1833	1386	986	752	658	633	658
32.5	3064	2868	2435	1830	1339	918	703	605	579	605
35.0	3135	2930	2477	1825	1291	849	657	556	527	556
37.5	3203	2984	2510	1819	1241	780	610	506	479	506
40.0	3262	3035	2533	1810	1188	730	564	456	424	456
42.5	3313	3076	2548	1798	1134	687	521	402	373	402
45.0	3355	3108	2555	1783	1078	645	478	356	331	356
47.5	3398	3132	2558	1763	1023	603	432	314	286	314
50.0	3440	3157	2555	1738	967	560	382	270	251	270
52.5	3476	3183	2545	1709	911	517	336	234	219	234
55.0	3501	3199	2529	1674	854	475	294	200	184	200
57.5	3517	3204	2511	1635	797	433	250	171	155	171
60.0	3521	3199	2488	1590	737	390	212	140	122	140
62.5	3507	3182	2457	1543	678	348	179	109	97	109
65.0	3474	3152	2416	1495	617	303	151	83	78	83
67.5	3428	3105	2366	1442	555	259	127	60	53	60
70.0	3371	3048	2308	1386	491	218	102	36	26	36
72.5	3303	2981	2241	1326	427	179	77	6	1	6
75.0	3222	2905	2170	1260	364	147	49	0	0	0
77.5	3131	2823	2092	1190	302	119	28	0	1	0
80.0	3040	2736	2015	1119	243	96	24	0	0	0
82.5	2948	2648	1936	1050	191	79	22	1	1	1
85.0	2856	2557	1854	980	148	70	19	1	1	1
87.5	2757	2463	1771	908	119	64	17	1	1	1
90.0	2644	2359	1681	839	105	59	16	1	1	1
92.5	2518	2250	1593	774	97	54	14	1	1	1
95.0	2381	2130	1500	712	91	50	12	1	1	1
97.5	2237	2001	1405	653	86	46	11	1	1	1
100.0	2094	1875	1313	598	81	42	9	1	1	1
102.5	1970	1759	1226	547	76	39	8	1	1	1
105.0	1843	1646	1141	496	71	36	7	1	1	1
107.5	1711	1532	1057	449	66	33	6	1	1	1
110.0	1580	1421	978	406	61	30	5	1	1	1
112.5	1446	1310	901	366	56	28	4	0	1	0
115.0	1321	1195	828	325	51	25	4	1	1	1
117.5	1198	1087	753	286	47	23	3	1	2	1
120.0	1095	993	675	244	43	21	3	1	2	1
122.5	991	895	608	202	38	19	3	2	3	2
125.0	890	809	549	165	34	17	2	2	2	2
127.5	813	736	488	131	31	15	2	2	3	2
130.0	731	661	429	98	27	13	2	3	3	3

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CANDELA TABULATION - (Cont.)

132.5	657	591	374	69	24	12	2	3	4	3
135.0	584	522	324	43	21	10	3	3	4	3
137.5	513	456	276	28	18	9	3	4	4	4
140.0	445	400	228	22	15	7	3	4	5	4
142.5	387	343	185	18	12	6	3	4	5	4
145.0	330	290	144	15	9	5	4	5	5	5
147.5	280	244	101	12	5	4	4	5	5	5
150.0	234	198	56	10	4	4	4	5	5	5
152.5	181	148	17	8	3	4	4	5	5	5
155.0	122	89	5	6	3	4	4	5	5	5
157.5	54	29	4	4	3	4	4	5	5	5
160.0	6	3	3	3	3	4	4	5	5	5
162.5	2	2	3	3	3	4	5	5	5	5
165.0	3	3	3	3	4	4	5	5	5	5
167.5	3	3	3	4	4	4	5	5	5	5
170.0	3	3	4	4	4	4	5	5	5	5
172.5	3	4	4	4	4	5	5	5	5	5
175.0	4	4	4	4	5	5	5	5	5	5
177.5	4	4	4	5	5	4	5	5	5	5
180.0	4	4	4	4	4	4	4	4	4	4

Vert. Angles **Horizontal Angles**

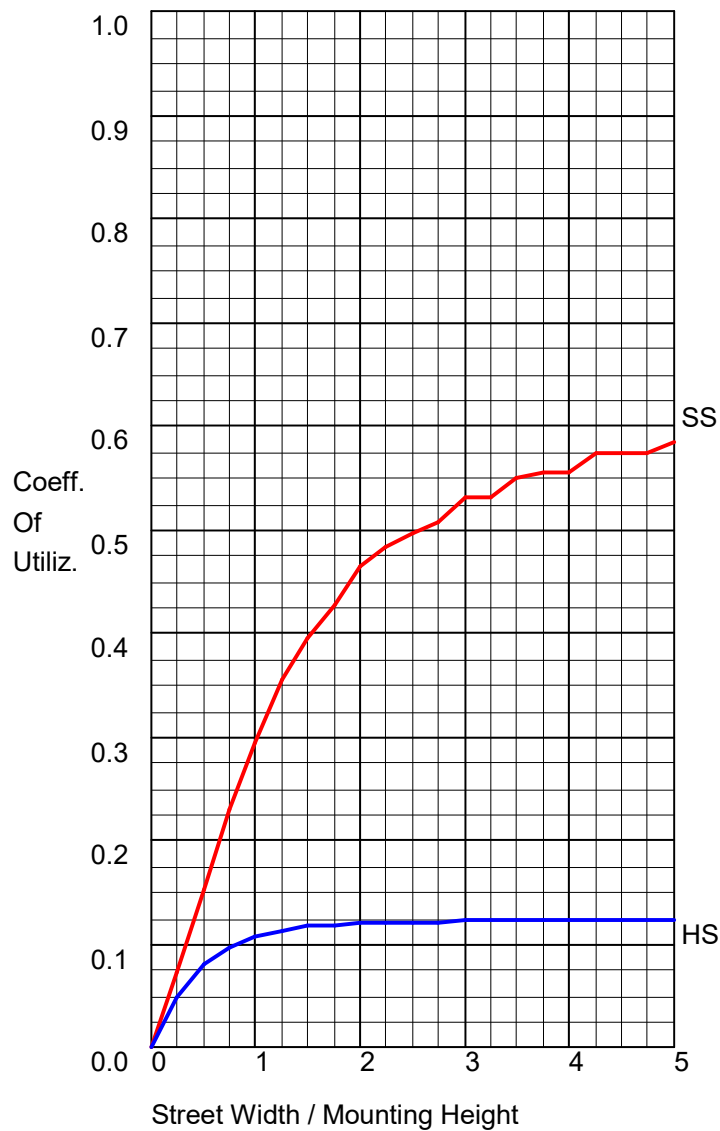
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1687	1687	1687	1687	1687	1687	1687
2.5	1611	1644	1681	1715	1742	1763	1803
5.0	1536	1600	1674	1741	1802	1847	1894
7.5	1454	1552	1662	1766	1862	1926	1985
10.0	1370	1500	1646	1789	1915	2011	2085
12.5	1281	1444	1627	1806	1968	2101	2196
15.0	1191	1384	1604	1818	2027	2203	2317
17.5	1100	1322	1576	1827	2087	2308	2438
20.0	1009	1257	1544	1832	2153	2415	2562
22.5	917	1192	1509	1835	2218	2521	2677
25.0	854	1124	1471	1836	2280	2620	2790
27.5	802	1055	1430	1835	2337	2713	2896
30.0	752	986	1386	1833	2390	2796	2985
32.5	703	918	1339	1830	2435	2868	3064
35.0	657	849	1291	1825	2477	2930	3135
37.5	610	780	1241	1819	2510	2984	3203
40.0	564	730	1188	1810	2533	3035	3262
42.5	521	687	1134	1798	2548	3076	3313
45.0	478	645	1078	1783	2555	3108	3355
47.5	432	603	1023	1763	2558	3132	3398
50.0	382	560	967	1738	2555	3157	3440
52.5	336	517	911	1709	2545	3183	3476
55.0	294	475	854	1674	2529	3199	3501
57.5	250	433	797	1635	2511	3204	3517
60.0	212	390	737	1590	2488	3199	3521
62.5	179	348	678	1543	2457	3182	3507
65.0	151	303	617	1495	2416	3152	3474
67.5	127	259	555	1442	2366	3105	3428
70.0	102	218	491	1386	2308	3048	3371
72.5	77	179	427	1326	2241	2981	3303
75.0	49	147	364	1260	2170	2905	3222
77.5	28	119	302	1190	2092	2823	3131

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CANDELA TABULATION - (Cont.)

80.0	24	96	243	1119	2015	2736	3040
82.5	22	79	191	1050	1936	2648	2948
85.0	19	70	148	980	1854	2557	2856
87.5	17	64	119	908	1771	2463	2757
90.0	16	59	105	839	1681	2359	2644
92.5	14	54	97	774	1593	2250	2518
95.0	12	50	91	712	1500	2130	2381
97.5	11	46	86	653	1405	2001	2237
100.0	9	42	81	598	1313	1875	2094
102.5	8	39	76	547	1226	1759	1970
105.0	7	36	71	496	1141	1646	1843
107.5	6	33	66	449	1057	1532	1711
110.0	5	30	61	406	978	1421	1580
112.5	4	28	56	366	901	1310	1446
115.0	4	25	51	325	828	1195	1321
117.5	3	23	47	286	753	1087	1198
120.0	3	21	43	244	675	993	1095
122.5	3	19	38	202	608	895	991
125.0	2	17	34	165	549	809	890
127.5	2	15	31	131	488	736	813
130.0	2	13	27	98	429	661	731
132.5	2	12	24	69	374	591	657
135.0	3	10	21	43	324	522	584
137.5	3	9	18	28	276	456	513
140.0	3	7	15	22	228	400	445
142.5	3	6	12	18	185	343	387
145.0	4	5	9	15	144	290	330
147.5	4	4	5	12	101	244	280
150.0	4	4	4	10	56	198	234
152.5	4	4	3	8	17	148	181
155.0	4	4	3	6	5	89	122
157.5	4	4	3	4	4	29	54
160.0	4	4	3	3	3	3	6
162.5	5	4	3	3	3	2	2
165.0	5	4	4	3	3	3	3
167.5	5	4	4	4	3	3	3
170.0	5	4	4	4	4	3	3
172.5	5	5	4	4	4	4	3
175.0	5	5	5	4	4	4	4
177.5	5	4	5	5	4	4	4
180.0	4	4	4	4	4	4	4

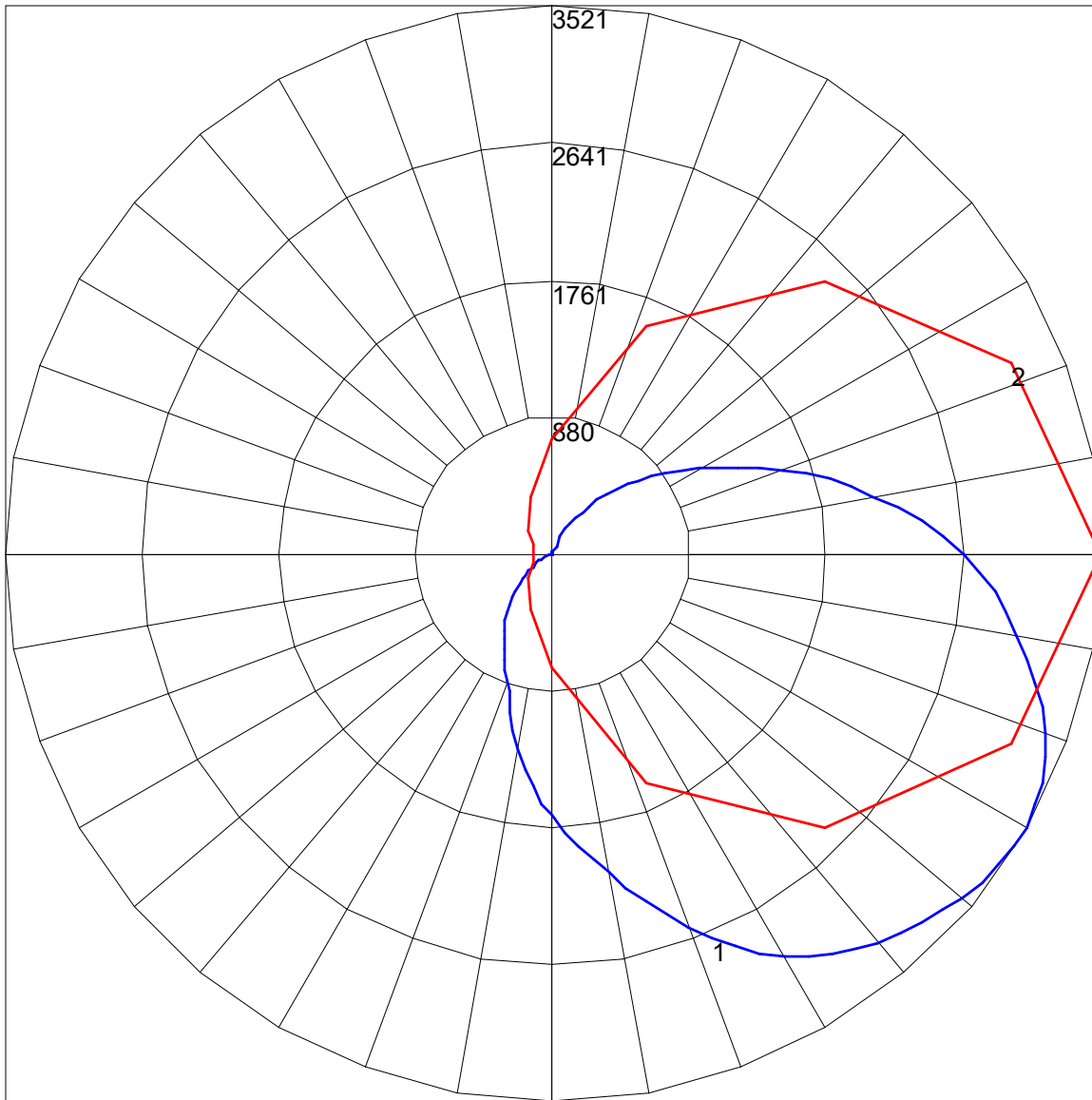
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

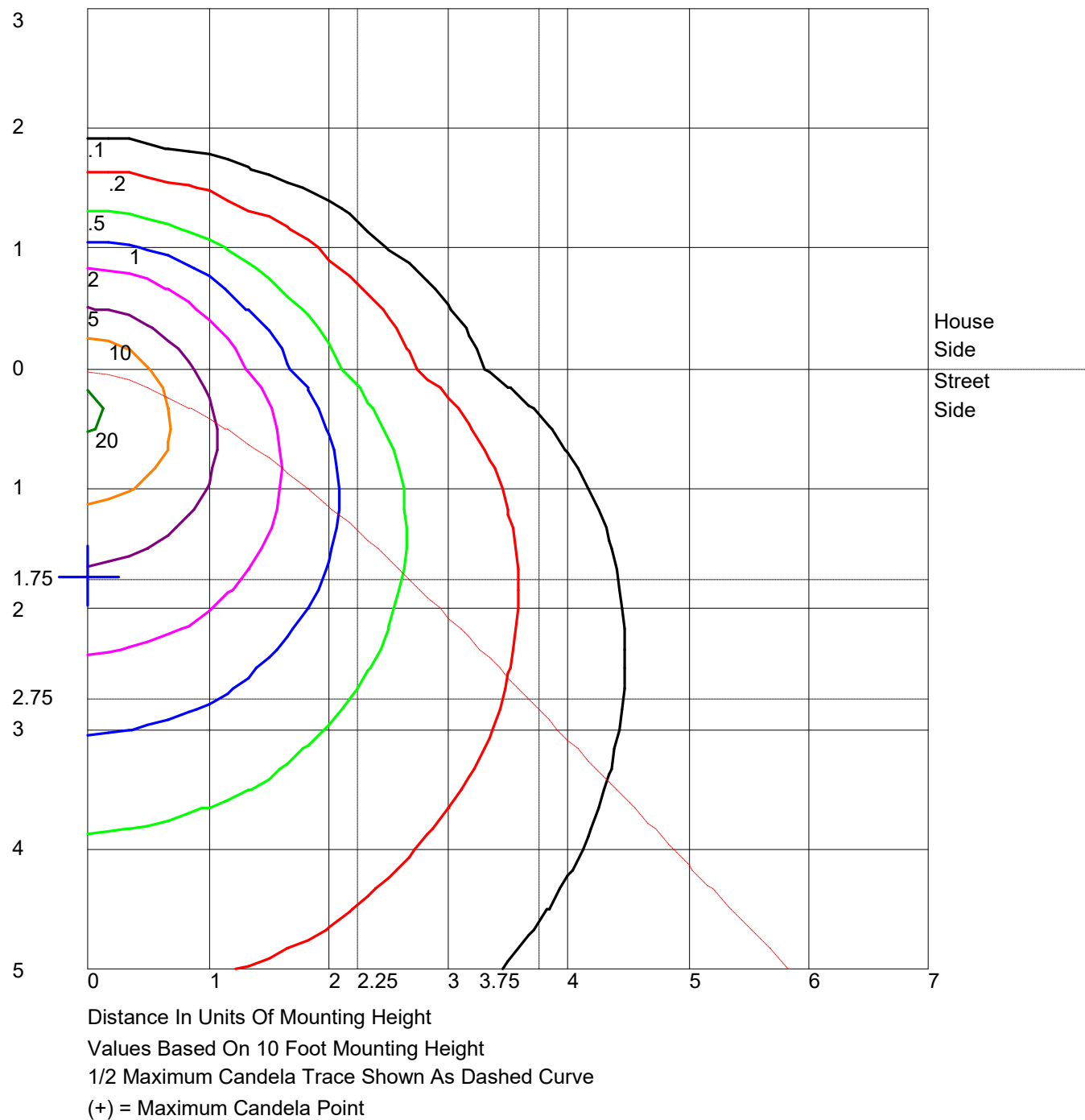
	Lumens	Percent Of Luminaire
Downward Street Side	6771.4	66.5
Downward House Side	1262.1	12.4
Downward Total	8033.5	78.9
Upward Street Side	2103.8	20.7
Upward House Side	43.3	0.4
Upward Total	2147.1	21.1
Total Flux	10180.6	100.0

POLAR GRAPH

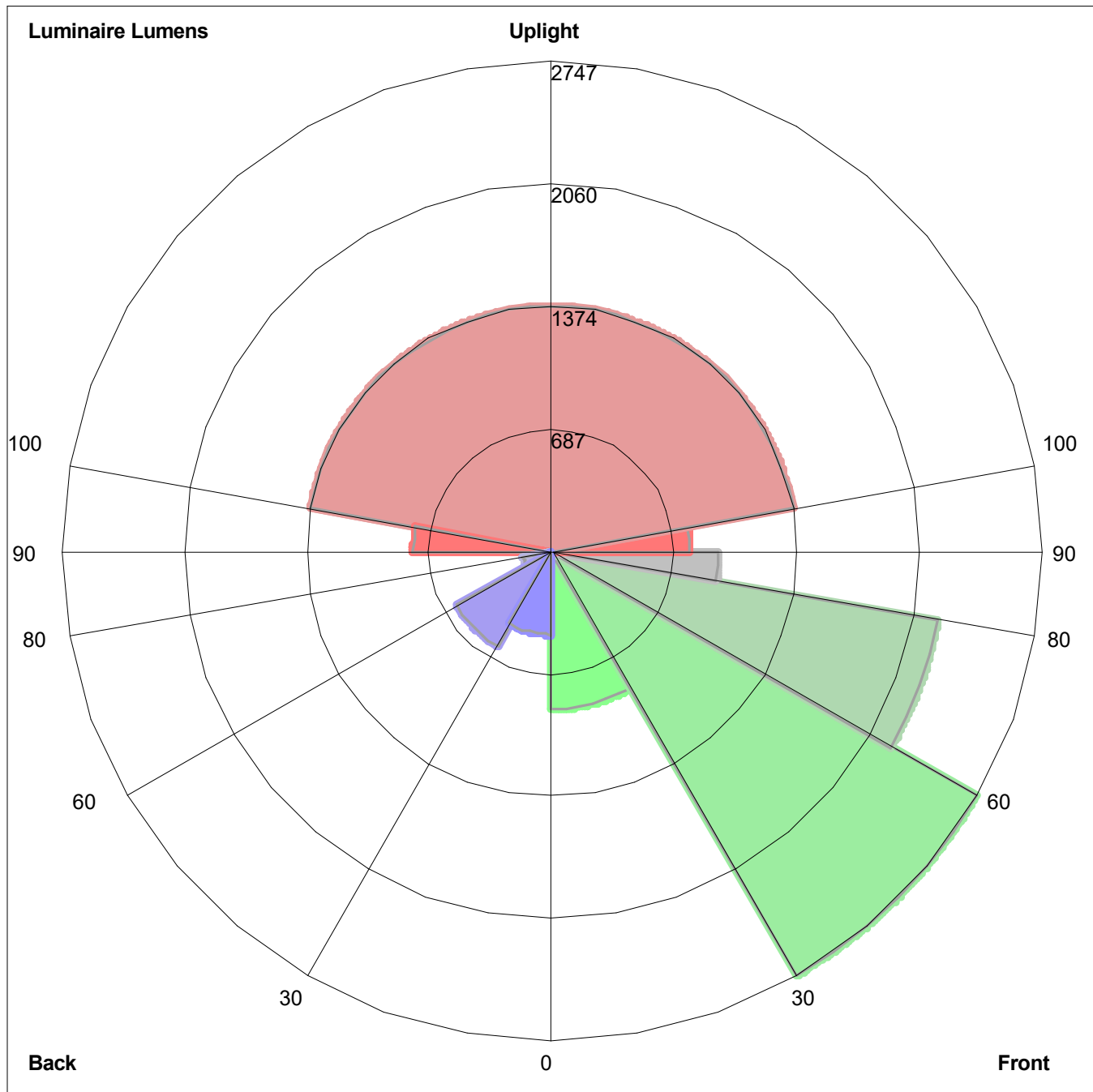


Maximum Candela = 3521 Located At Horizontal Angle = 360, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=886.0, Medium=2747.3, High=2198.6, Very High=939.4
Back: Low=467.5, Medium=609.3, High=161.8, Very High=23.5
Uplight: Low=775.1, High=1372.1

BUG Rating : B1-U5-G5