



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-2-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13253
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 02/10/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-2-LED-10L-30
[OTHER] TEST PROCEDURE: IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9366
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7569
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	7569
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	15 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	495 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	537.4	N.A.	5.7
FM - Front-Medium (30-60)	3631.0	N.A.	38.8
FH - Front-High (60-80)	1857.5	N.A.	19.8
FVH - Front-Very High (80-90)	48.2	N.A.	0.5
BL - Back-Low (0-30)	472.0	N.A.	5.0
BM - Back-Medium (30-60)	2028.7	N.A.	21.7
BH - Back-High (60-80)	710.7	N.A.	7.6
BVH - Back-Very High (80-90)	70.8	N.A.	0.8
UL - Uplight-Low (90-100)	4.3	N.A.	0.0
UH - Uplight-High (100-180)	5.7	N.A.	0.1
Total	9366.3	N.A.	100.0
BUG Rating	B2-U1-G2		

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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	820	820	820	820	820	820	820	820	820	820
2.5	877	868	860	844	831	818	809	799	801	800
5.0	835	838	827	823	846	864	858	852	810	806
7.5	846	843	833	846	817	820	820	879	843	828
10.0	893	883	904	880	868	863	851	876	930	910
12.5	933	943	942	929	926	944	909	928	963	980
15.0	1020	1018	1036	1012	986	1002	1022	1000	1057	1077
17.5	1109	1086	1105	1093	1114	1091	1113	1130	1148	1174
20.0	1235	1224	1190	1159	1195	1222	1227	1261	1282	1291
22.5	1303	1296	1294	1294	1262	1316	1347	1401	1400	1426
25.0	1448	1456	1432	1384	1399	1409	1501	1570	1594	1614
27.5	1570	1581	1571	1561	1503	1559	1620	1732	1805	1831
30.0	1761	1777	1741	1691	1694	1688	1739	1917	2024	2048
32.5	1902	1922	1934	1931	1849	1859	1895	2084	2231	2234
35.0	2122	2125	2133	2117	2063	2038	2063	2213	2406	2415
37.5	2389	2408	2395	2356	2279	2229	2209	2349	2611	2624
40.0	2706	2730	2727	2663	2571	2472	2408	2445	2814	2837
42.5	3033	3062	3071	3050	2932	2777	2637	2564	3007	3050
45.0	3286	3320	3360	3432	3336	3162	2923	2690	3201	3279
47.5	3377	3410	3499	3650	3681	3622	3347	2884	3427	3555
50.0	3274	3300	3409	3644	3867	4084	3925	3215	3741	3914
52.5	2975	2974	3107	3392	3790	4373	4579	3691	4186	4453
55.0	2486	2468	2596	2912	3427	4356	5242	4303	4726	5074
57.5	1745	1791	1903	2206	2778	3955	5652	5128	5374	5774
60.0	1116	1148	1216	1430	1921	3117	5727	5984	6055	6476
62.5	756	757	781	895	1170	1961	5324	6446	6788	7182
65.0	554	557	572	640	750	1093	4243	6337	7178	7569
67.5	418	423	438	483	568	709	2780	5521	6920	7235
70.0	321	331	335	379	449	523	1544	4051	5632	5588
72.5	232	245	241	286	356	413	835	2520	3272	2910
75.0	138	146	135	180	255	331	517	1443	1463	1176
77.5	99	113	93	110	148	239	339	844	723	563
80.0	97	110	85	83	102	155	211	495	408	323
82.5	116	118	82	63	75	111	116	284	253	209
85.0	113	114	68	46	50	71	74	99	130	114
87.5	57	55	33	19	16	27	30	34	38	39
90.0	3	3	2	2	2	3	6	12	15	15
92.5	2	2	2	2	1	2	5	12	15	15
95.0	2	2	2	2	1	2	5	11	14	14
97.5	2	1	1	2	1	2	4	9	12	12
100.0	2	1	1	2	1	1	3	6	9	10
102.5	2	1	1	1	1	1	1	4	6	6
105.0	1	1	1	1	1	1	1	2	3	4
107.5	1	1	1	1	1	0	0	0	1	1
110.0	1	1	1	1	1	0	0	0	0	0
112.5	1	1	1	1	1	0	0	0	0	0
115.0	2	1	1	1	1	0	0	0	0	0
117.5	2	1	1	1	1	0	0	0	0	0
120.0	2	2	1	1	1	0	0	0	0	0
122.5	2	2	2	2	1	1	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	1	1	1	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	3	3	3	2	1	1	1	0	0	0
135.0	4	3	3	2	2	1	1	0	0	0
137.5	4	4	3	3	2	1	1	1	0	0
140.0	4	4	3	3	2	1	1	1	0	0
142.5	4	4	3	2	2	1	1	1	0	0
145.0	2	2	1	1	1	0	0	0	0	0
147.5	1	1	1	0	0	0	0	0	0	0
150.0	1	1	1	0	0	0	0	0	0	0
152.5	1	1	1	0	0	0	0	0	0	0
155.0	1	1	0	0	0	0	0	0	0	0
157.5	1	1	0	0	0	0	0	0	0	0
160.0	1	1	0	0	0	0	0	0	0	0
162.5	1	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	1	0	0	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	1	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	820	820	820	820	820	820	820	820	820	820
2.5	805	804	802	796	793	786	793	805	808	811
5.0	800	773	770	779	785	780	806	772	742	729
7.5	797	796	781	781	798	737	693	681	693	677
10.0	841	810	803	842	771	714	688	681	680	699
12.5	934	880	882	874	776	722	726	709	716	736
15.0	1013	956	948	926	795	775	750	763	790	832
17.5	1115	1066	1036	964	853	810	820	875	914	970
20.0	1250	1190	1163	1025	907	872	915	995	1035	1118
22.5	1393	1344	1277	1079	956	954	1033	1119	1270	1364
25.0	1593	1495	1448	1167	1029	1056	1148	1324	1457	1606
27.5	1791	1680	1650	1265	1119	1166	1339	1504	1732	1867
30.0	2007	1875	1821	1353	1220	1294	1492	1731	1902	2056
32.5	2176	2022	1942	1438	1324	1418	1657	1867	2104	2234
35.0	2364	2182	2075	1509	1421	1568	1769	1993	2188	2277
37.5	2571	2355	2218	1589	1498	1634	1829	2037	2184	2245
40.0	2789	2539	2367	1676	1559	1687	1849	2026	2105	2127
42.5	3034	2738	2534	1754	1625	1718	1817	1937	1960	1934
45.0	3294	2965	2700	1843	1660	1704	1756	1801	1776	1714
47.5	3608	3219	2877	1927	1681	1669	1666	1649	1565	1505
50.0	4015	3539	3068	2003	1699	1613	1557	1494	1396	1338
52.5	4542	3882	3270	2076	1708	1533	1431	1377	1264	1215
55.0	5143	4260	3438	2128	1674	1425	1331	1279	1139	1088
57.5	5782	4619	3538	2137	1610	1297	1228	1174	990	939
60.0	6376	4872	3502	2053	1500	1144	1093	1033	841	801
62.5	6739	4862	3229	1836	1314	966	930	875	697	655
65.0	6675	4432	2613	1483	1071	769	747	713	568	525
67.5	5767	3459	1792	1056	813	600	598	569	465	455
70.0	3971	2163	1097	712	606	482	494	461	413	418
72.5	1701	1052	688	499	465	399	418	401	378	383
75.0	639	498	455	372	372	343	361	358	332	309
77.5	342	303	318	303	300	299	315	275	213	175

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CANDELA TABULATION - (Cont.)

80.0	230	193	199	252	251	253	213	146	185	167
82.5	150	103	109	201	205	158	111	118	225	228
85.0	85	52	59	140	117	81	85	122	243	240
87.5	32	16	25	44	33	38	48	88	172	187
90.0	13	2	9	6	4	2	1	1	1	1
92.5	13	2	9	6	5	2	1	1	1	1
95.0	13	2	10	7	5	2	2	1	1	1
97.5	12	2	9	6	5	2	2	1	1	1
100.0	9	2	7	5	4	2	1	1	1	1
102.5	6	1	5	5	3	2	1	1	1	1
105.0	4	1	4	3	3	2	1	1	1	1
107.5	2	1	2	2	2	2	1	1	1	1
110.0	1	0	1	2	2	2	1	1	1	1
112.5	0	0	1	2	2	1	1	1	1	1
115.0	0	0	1	1	2	2	1	1	1	1
117.5	0	0	1	1	2	2	1	1	1	1
120.0	0	0	1	1	2	2	2	1	1	1
122.5	0	0	1	1	2	2	2	1	1	1
125.0	0	1	1	1	2	2	2	2	1	1
127.5	0	1	1	2	2	2	2	2	1	1
130.0	0	1	1	2	2	2	2	2	2	2
132.5	0	1	1	2	2	2	2	2	2	2
135.0	0	1	1	2	2	2	2	2	2	2
137.5	0	1	1	2	2	2	2	2	2	2
140.0	0	1	1	1	2	2	2	2	2	2
142.5	0	0	1	1	2	2	2	2	2	2
145.0	0	0	0	1	1	2	2	2	1	1
147.5	0	0	0	0	1	1	1	1	1	0
150.0	0	0	0	0	1	1	1	1	1	0
152.5	0	0	0	0	0	1	1	1	1	0
155.0	0	0	0	0	0	1	1	1	0	0
157.5	0	0	0	0	0	1	1	1	0	0
160.0	0	0	0	0	0	0	1	1	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	820	820
2.5	811	813
5.0	741	729
7.5	673	672
10.0	677	689
12.5	743	736
15.0	839	852
17.5	972	1008
20.0	1201	1222
22.5	1419	1446
25.0	1713	1716

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

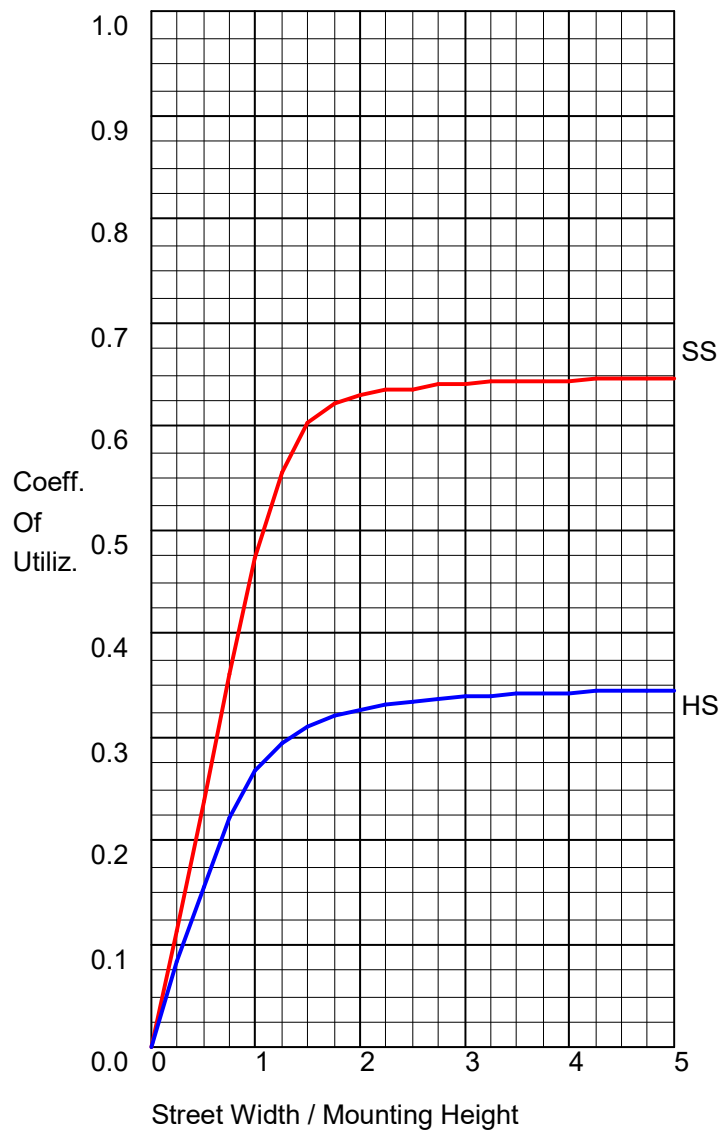
27.5	1931	1953
30.0	2166	2159
32.5	2266	2262
35.0	2291	2286
37.5	2234	2224
40.0	2094	2082
42.5	1894	1882
45.0	1666	1654
47.5	1461	1451
50.0	1307	1297
52.5	1184	1175
55.0	1045	1041
57.5	905	902
60.0	767	752
62.5	622	618
65.0	523	528
67.5	481	495
70.0	460	484
72.5	429	466
75.0	327	359
77.5	186	217
80.0	187	209
82.5	249	256
85.0	252	256
87.5	155	192
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	1	0
125.0	1	0
127.5	1	1
130.0	1	1
132.5	1	1
135.0	1	1
137.5	2	2
140.0	2	2
142.5	1	1
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

IES ROAD REPORT
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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

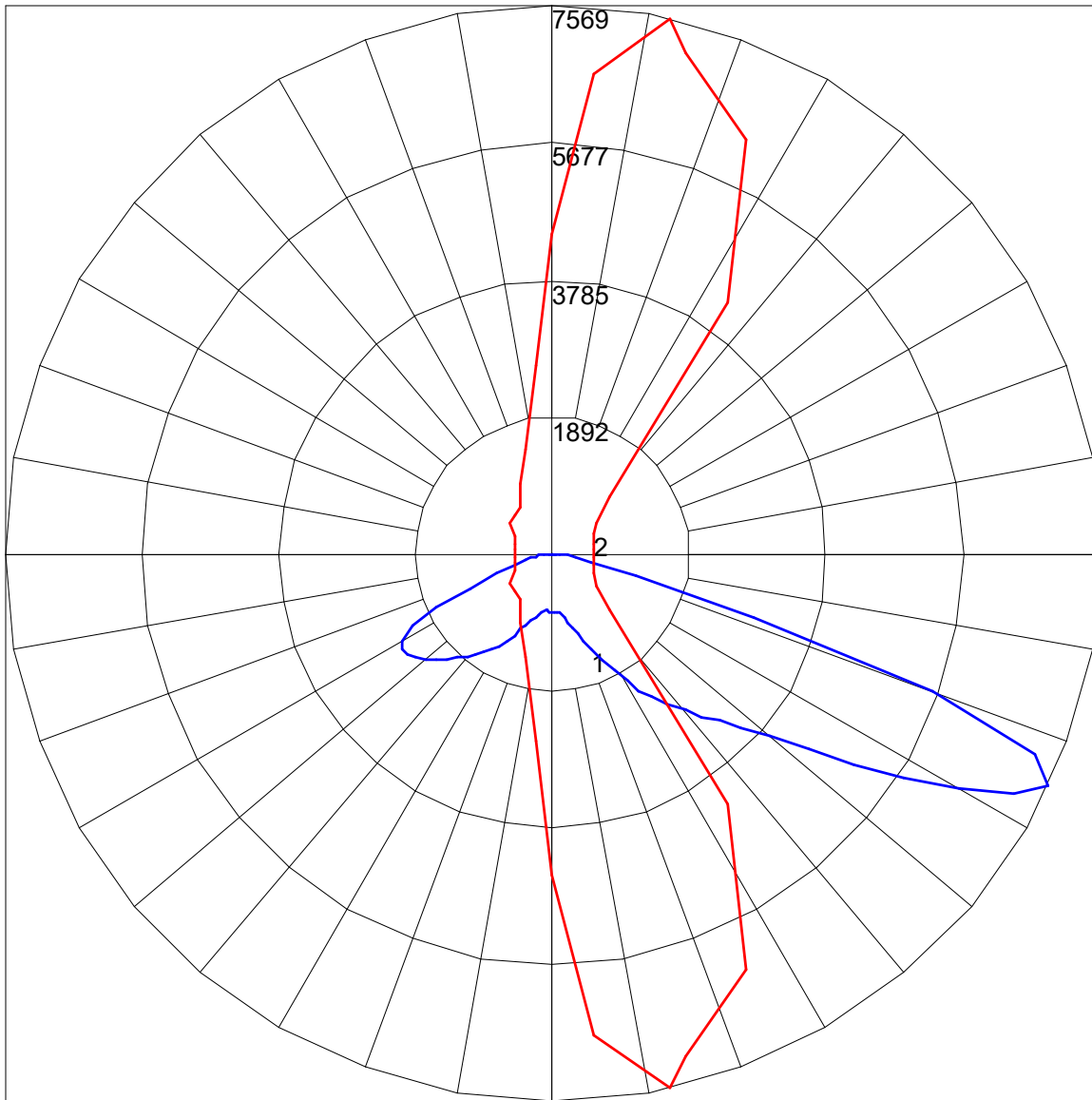
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

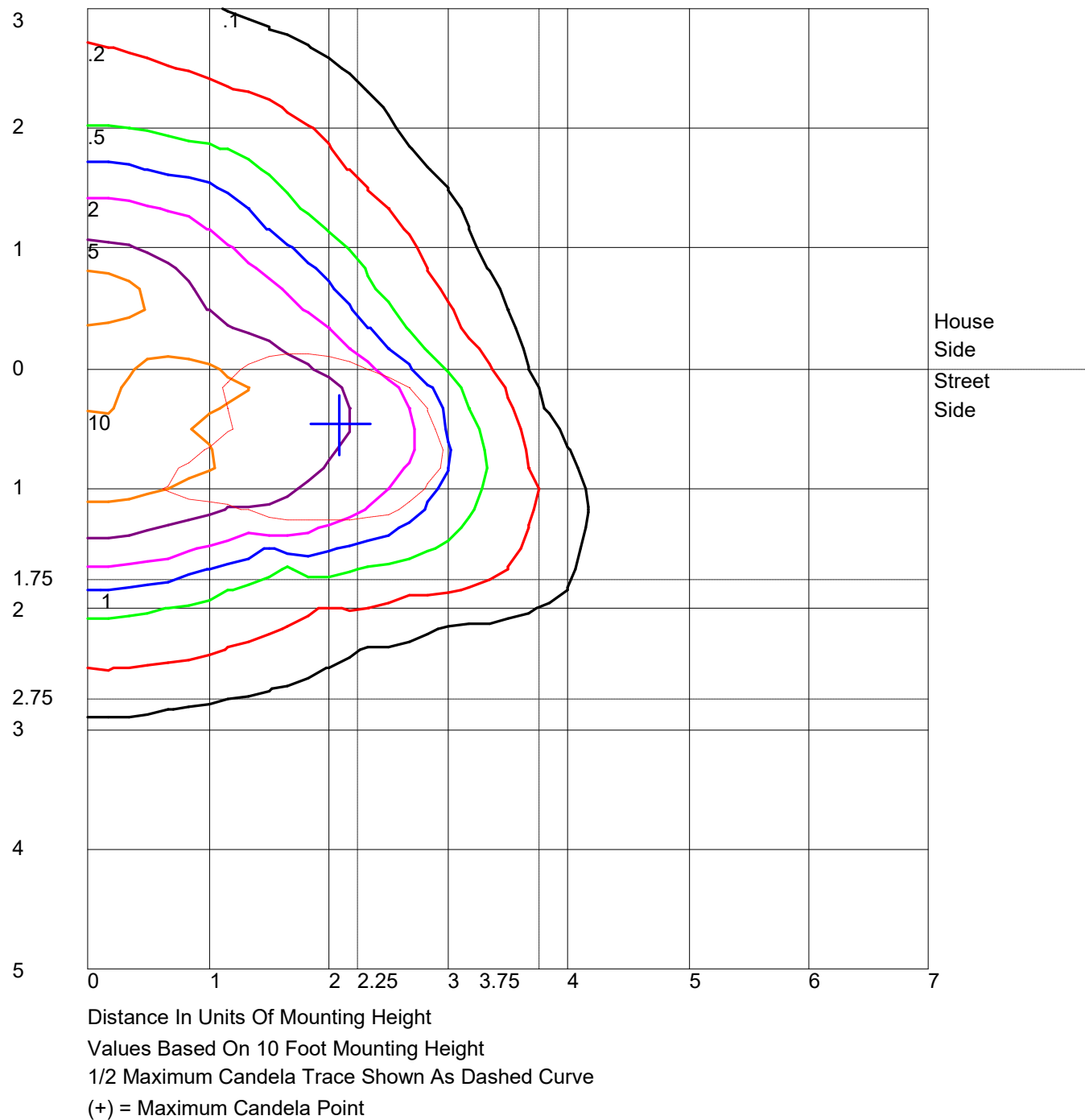
	Lumens	Percent Of Luminaire
Downward Street Side	6074.1	64.9
Downward House Side	3282.1	35.0
Downward Total	9356.2	99.9
Upward Street Side	5.3	0.1
Upward House Side	4.7	0.1
Upward Total	10.0	0.1
Total Flux	9366.2	100.0

POLAR GRAPH

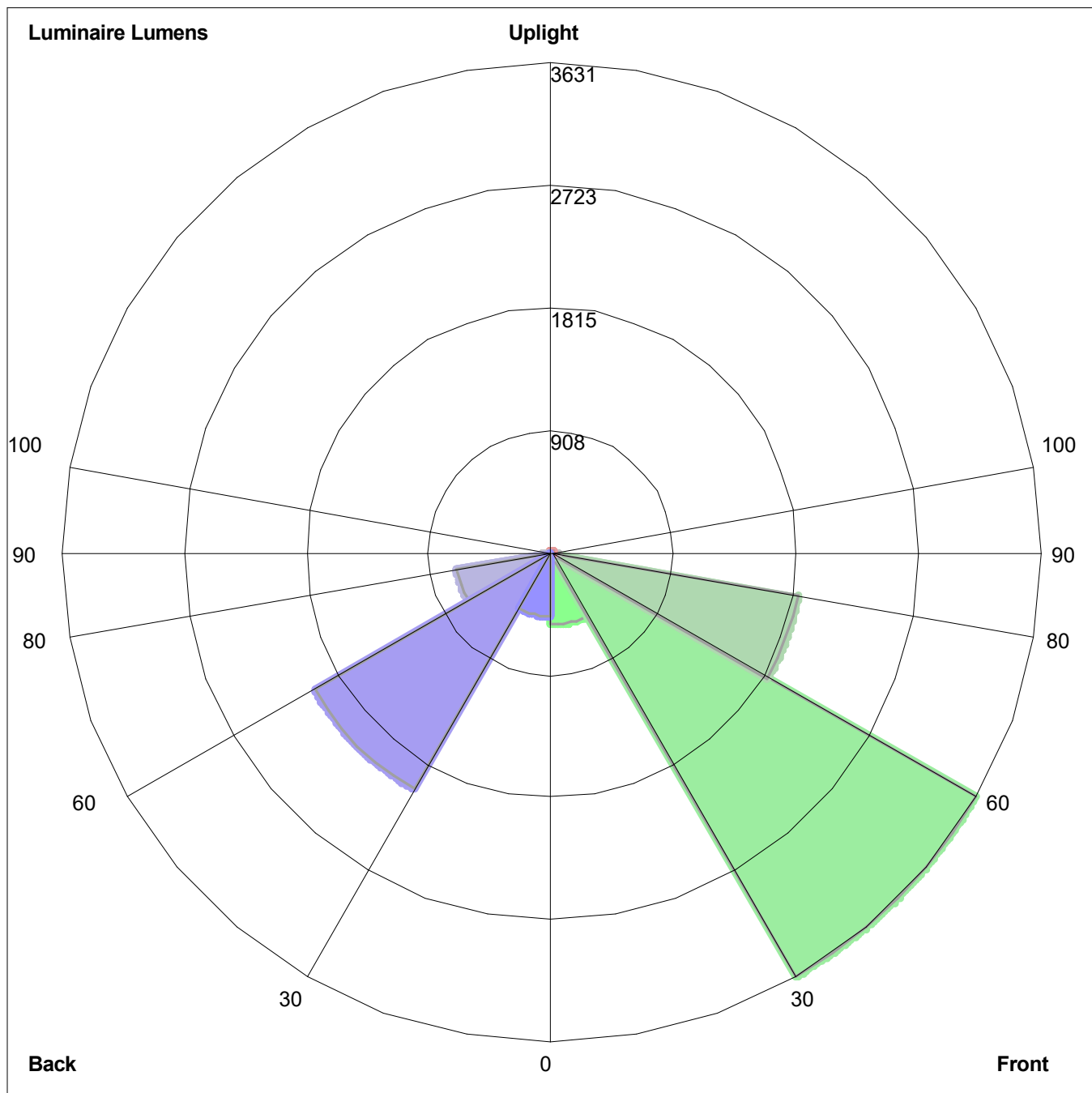


Maximum Candela = 7569 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=537.4, Medium= 3631.0, High=1857.5, Very High=48.2
Back: Low=472.0, Medium=2028.7, High=710.7, Very High=70.8
Uplight: Low=4.3, High=5.7

BUG Rating : B2-U1-G2