



## IES ROAD REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5N-30-70CRI-HSS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-10659  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 01/23/2020  
[TEST DATE] 10/31/18  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMCAT] EXN-EGLED-10L-T5N-30-70CRI-HSS  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[OTHER] TEST PROCEDURE: IESNA LM-79-08

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6747
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	76
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2183
Maximum Candela Angle	17.5H 47.5V
Maximum Candela (<90 Degrees Vertical)	2183
Maximum Candela Angle (<90 Degrees Vertical)	17.5H 47.5V
Maximum Candela At 90 Degrees Vertical	33 (0.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	627 (9.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5N-30-70CRI-HSS.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	604.4	N.A.	9.0
FM - Front-Medium (30-60)	2277.1	N.A.	33.8
FH - Front-High (60-80)	1283.7	N.A.	19.0
FVH - Front-Very High (80-90)	131.0	N.A.	1.9
BL - Back-Low (0-30)	513.4	N.A.	7.6
BM - Back-Medium (30-60)	1488.6	N.A.	22.1
BH - Back-High (60-80)	407.7	N.A.	6.0
BVH - Back-Very High (80-90)	19.8	N.A.	0.3
UL - Uplight-Low (90-100)	11.0	N.A.	0.2
UH - Uplight-High (100-180)	10.2	N.A.	0.2
Total	6746.9	N.A.	100.0
BUG Rating	B2-U2-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>17.5</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055
<b>2.5</b>	1067	1068	1067	1067	1066	1067	1066	1066	1066	1065
<b>5.0</b>	1096	1096	1094	1094	1092	1092	1090	1086	1084	1080
<b>7.5</b>	1131	1133	1129	1132	1129	1125	1121	1116	1110	1103
<b>10.0</b>	1177	1179	1176	1177	1174	1168	1161	1154	1144	1135
<b>12.5</b>	1233	1234	1233	1232	1227	1221	1212	1201	1189	1176
<b>15.0</b>	1298	1300	1301	1297	1295	1283	1271	1257	1243	1226
<b>17.5</b>	1375	1380	1378	1373	1370	1358	1341	1324	1306	1285
<b>20.0</b>	1471	1467	1463	1458	1454	1440	1419	1398	1375	1350
<b>22.5</b>	1567	1562	1557	1557	1546	1529	1508	1483	1457	1426
<b>25.0</b>	1669	1664	1658	1656	1644	1623	1598	1570	1538	1502
<b>27.5</b>	1776	1770	1761	1760	1744	1719	1690	1662	1621	1579
<b>30.0</b>	1879	1875	1861	1859	1840	1813	1784	1747	1702	1654
<b>32.5</b>	1975	1971	1954	1950	1931	1899	1867	1828	1781	1724
<b>35.0</b>	2051	2048	2037	2032	2011	1979	1944	1898	1847	1786
<b>37.5</b>	2103	2102	2099	2096	2077	2048	2007	1960	1904	1838
<b>40.0</b>	2142	2143	2140	2139	2126	2100	2059	2010	1951	1881
<b>42.5</b>	2168	2169	2168	2169	2159	2135	2096	2047	1985	1910
<b>45.0</b>	2180	2182	2183	2183	2176	2154	2118	2068	2004	1926
<b>47.5</b>	2180	2181	2183	2183	2175	2156	2123	2074	2009	1928
<b>50.0</b>	2161	2164	2165	2165	2157	2140	2111	2064	1996	1913
<b>52.5</b>	2127	2129	2130	2131	2123	2106	2080	2032	1965	1880
<b>55.0</b>	2072	2077	2080	2080	2074	2058	2031	1981	1917	1832
<b>57.5</b>	1996	2007	2011	2011	2007	1991	1961	1916	1851	1767
<b>60.0</b>	1905	1918	1925	1922	1919	1905	1877	1831	1764	1686
<b>62.5</b>	1803	1807	1813	1806	1808	1795	1772	1727	1663	1579
<b>65.0</b>	1683	1684	1683	1682	1681	1675	1652	1608	1546	1461
<b>67.5</b>	1542	1538	1546	1547	1542	1532	1520	1474	1412	1331
<b>70.0</b>	1364	1384	1391	1396	1385	1377	1364	1329	1264	1180
<b>72.5</b>	1183	1218	1219	1217	1211	1206	1198	1162	1100	1025
<b>75.0</b>	992	1040	1032	1030	1022	1019	1015	981	934	858
<b>77.5</b>	801	843	830	826	824	823	807	794	747	675
<b>80.0</b>	606	627	621	610	626	616	606	598	562	498
<b>82.5</b>	411	421	409	408	411	422	411	406	380	328
<b>85.0</b>	228	228	217	225	226	228	232	226	210	180
<b>87.5</b>	76	67	68	69	73	76	77	82	71	63
<b>90.0</b>	33	33	32	31	30	29	27	22	17	14
<b>92.5</b>	33	33	32	32	31	29	27	19	12	7
<b>95.0</b>	30	31	30	29	28	28	24	18	10	6
<b>97.5</b>	28	28	28	27	27	25	22	15	8	4
<b>100.0</b>	24	24	23	23	22	21	18	13	7	3
<b>102.5</b>	18	18	17	17	16	16	14	9	4	2
<b>105.0</b>	12	11	11	11	11	11	10	7	3	1
<b>107.5</b>	5	5	6	6	7	8	7	4	2	1
<b>110.0</b>	0	0	2	2	3	3	3	3	1	1
<b>112.5</b>	0	0	0	0	1	2	2	2	1	1
<b>115.0</b>	0	0	0	0	1	1	1	1	1	2
<b>117.5</b>	0	0	0	0	1	1	1	1	1	1
<b>120.0</b>	0	0	0	0	1	1	1	1	1	2
<b>122.5</b>	0	0	0	0	1	1	1	1	1	2
<b>125.0</b>	0	0	1	1	1	1	1	1	1	2
<b>127.5</b>	0	1	1	1	1	1	1	1	1	2
<b>130.0</b>	1	1	1	1	1	1	1	1	1	1

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## CANDELA TABULATION - (Cont.)

132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	2
137.5	1	1	1	1	1	1	1	1	1	1
140.0	1	1	1	1	1	1	1	1	1	1
142.5	1	1	1	1	1	1	1	1	1	1
145.0	1	1	1	1	1	1	1	1	1	1
147.5	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1
152.5	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1
157.5	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1
162.5	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1
167.5	1	1	1	1	1	1	1	1	1	1
170.0	1	1	1	1	1	1	1	1	1	1
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

## 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	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055
2.5	1063	1061	1060	1058	1055	1052	1049	1048	1047	1046
5.0	1074	1071	1069	1064	1058	1052	1048	1044	1040	1039
7.5	1095	1091	1085	1078	1069	1060	1053	1047	1042	1039
10.0	1123	1118	1112	1100	1087	1076	1066	1058	1051	1048
12.5	1161	1154	1146	1130	1114	1101	1087	1076	1069	1063
15.0	1210	1200	1188	1168	1149	1131	1116	1104	1092	1085
17.5	1264	1253	1237	1214	1191	1170	1153	1137	1124	1114
20.0	1326	1311	1296	1266	1238	1213	1193	1175	1160	1149
22.5	1394	1376	1359	1326	1291	1264	1237	1216	1199	1187
25.0	1464	1444	1425	1385	1346	1313	1284	1258	1239	1225
27.5	1536	1514	1490	1445	1403	1363	1329	1300	1278	1262
30.0	1604	1579	1553	1501	1456	1410	1368	1336	1311	1293
32.5	1668	1639	1609	1554	1499	1447	1402	1364	1335	1315
35.0	1725	1691	1658	1595	1533	1475	1424	1382	1349	1326
37.5	1769	1733	1698	1626	1556	1490	1434	1385	1348	1321
40.0	1804	1765	1725	1645	1566	1494	1429	1374	1331	1300
42.5	1829	1785	1741	1652	1564	1483	1410	1346	1297	1263
45.0	1840	1792	1744	1645	1549	1458	1376	1302	1244	1207
47.5	1834	1784	1732	1625	1519	1417	1323	1242	1177	1130
50.0	1813	1761	1704	1591	1473	1362	1255	1162	1088	1037
52.5	1777	1722	1660	1537	1410	1285	1170	1065	981	924
55.0	1726	1667	1602	1469	1327	1196	1068	953	859	793
57.5	1658	1595	1529	1383	1235	1085	953	827	723	647
60.0	1573	1505	1433	1285	1127	967	824	688	573	489
62.5	1465	1395	1327	1173	1007	840	678	533	411	319
65.0	1348	1271	1208	1049	877	704	537	380	255	168
67.5	1211	1143	1077	918	742	566	394	249	130	51
70.0	1068	1005	929	782	607	434	274	142	48	3
72.5	914	857	783	634	477	311	175	70	13	0
75.0	753	704	632	496	344	207	102	31	3	0
77.5	592	550	478	358	239	132	52	13	1	0

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PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5N-30-70CRI-HSS.IES

## CANDELA TABULATION - (Cont.)

80.0	426	395	342	244	154	76	26	5	0	0
82.5	282	252	220	150	88	39	11	2	0	0
85.0	149	136	119	78	43	17	4	1	0	0
87.5	53	47	39	28	13	5	1	0	0	0
90.0	9	7	5	3	1	1	1	0	0	0
92.5	2	1	1	1	1	1	1	1	0	0
95.0	2	1	1	1	1	1	1	1	1	0
97.5	1	1	1	1	1	1	1	1	1	0
100.0	1	1	1	2	1	1	1	1	1	1
102.5	1	1	1	2	2	2	1	1	1	1
105.0	2	2	2	2	2	2	2	1	1	1
107.5	1	2	2	2	2	2	2	1	1	1
110.0	2	2	2	2	2	2	2	1	1	1
112.5	2	2	2	2	2	2	2	2	2	1
115.0	2	2	2	2	2	2	2	2	2	1
117.5	2	2	2	2	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	1	1	2
132.5	2	2	2	2	2	2	2	1	2	1
135.0	2	2	2	2	2	2	2	1	1	1
137.5	2	2	1	2	2	2	2	1	1	1
140.0	1	2	1	2	2	2	2	1	1	1
142.5	1	1	1	1	1	1	1	1	1	1
145.0	1	1	1	1	1	1	1	1	1	1
147.5	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1
152.5	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1
157.5	1	1	1	1	1	1	1	1	1	0
160.0	1	1	1	1	1	1	1	1	1	0
162.5	1	1	1	1	1	1	1	1	1	0
165.0	1	1	1	1	1	1	1	1	1	0
167.5	1	1	1	1	1	1	1	1	0	0
170.0	1	1	1	1	1	1	1	1	0	0
172.5	1	1	1	1	1	1	1	0	0	0
175.0	1	1	1	1	1	1	1	0	0	0
177.5	1	1	1	1	1	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1055	1055
2.5	1044	1045
5.0	1038	1037
7.5	1037	1037
10.0	1045	1044
12.5	1060	1060
15.0	1081	1081
17.5	1109	1109
20.0	1143	1142
22.5	1180	1179
25.0	1217	1216

**IES ROAD REPORT****PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5N-30-70CRI-HSS.IES****CANDELA TABULATION - (Cont.)**

<b>27.5</b>	1254	1255
<b>30.0</b>	1284	1285
<b>32.5</b>	1305	1305
<b>35.0</b>	1313	1312
<b>37.5</b>	1306	1305
<b>40.0</b>	1284	1282
<b>42.5</b>	1245	1243
<b>45.0</b>	1187	1185
<b>47.5</b>	1111	1107
<b>50.0</b>	1010	1011
<b>52.5</b>	893	883
<b>55.0</b>	758	747
<b>57.5</b>	607	595
<b>60.0</b>	436	431
<b>62.5</b>	270	264
<b>65.0</b>	116	109
<b>67.5</b>	7	3
<b>70.0</b>	0	0
<b>72.5</b>	0	0
<b>75.0</b>	0	0
<b>77.5</b>	0	0
<b>80.0</b>	0	0
<b>82.5</b>	0	0
<b>85.0</b>	0	0
<b>87.5</b>	0	0
<b>90.0</b>	0	0
<b>92.5</b>	0	0
<b>95.0</b>	0	0
<b>97.5</b>	0	0
<b>100.0</b>	1	1
<b>102.5</b>	1	1
<b>105.0</b>	1	1
<b>107.5</b>	1	1
<b>110.0</b>	1	1
<b>112.5</b>	2	2
<b>115.0</b>	2	1
<b>117.5</b>	2	2
<b>120.0</b>	2	2
<b>122.5</b>	2	2
<b>125.0</b>	2	2
<b>127.5</b>	2	2
<b>130.0</b>	2	1
<b>132.5</b>	1	1
<b>135.0</b>	1	1
<b>137.5</b>	1	1
<b>140.0</b>	1	1
<b>142.5</b>	1	1
<b>145.0</b>	1	1
<b>147.5</b>	1	1
<b>150.0</b>	1	1
<b>152.5</b>	1	1
<b>155.0</b>	1	1
<b>157.5</b>	0	0
<b>160.0</b>	0	0
<b>162.5</b>	0	0
<b>165.0</b>	0	0

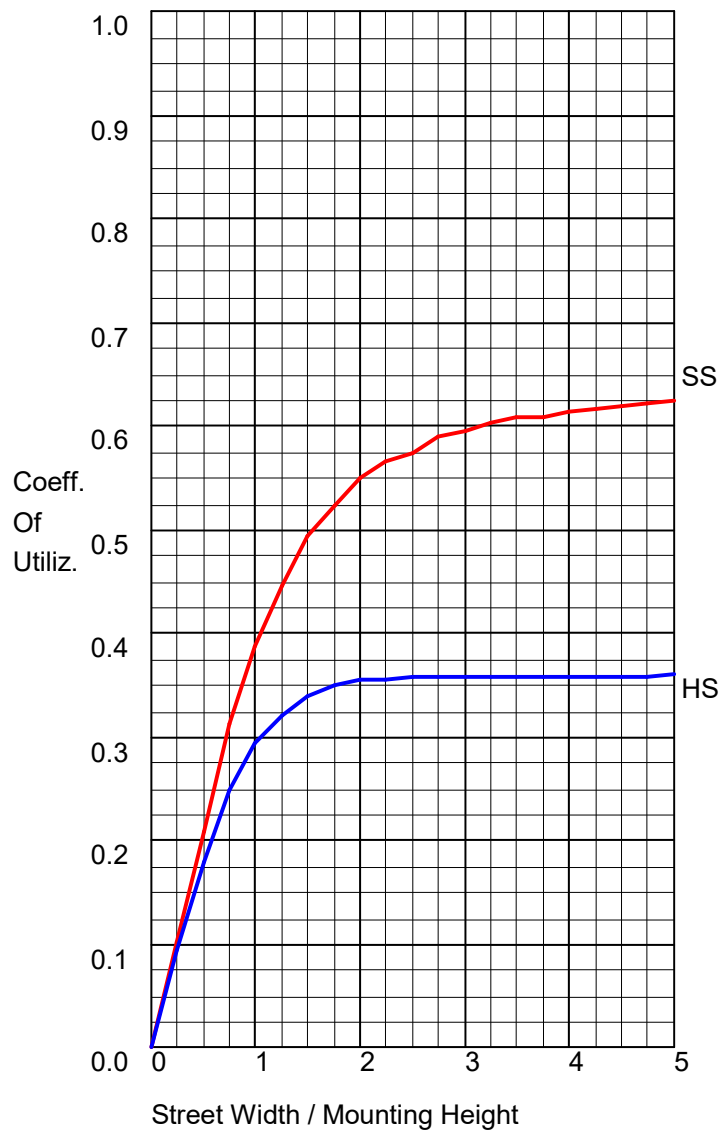
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**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	1	1

COEFFICIENTS OF UTILIZATION

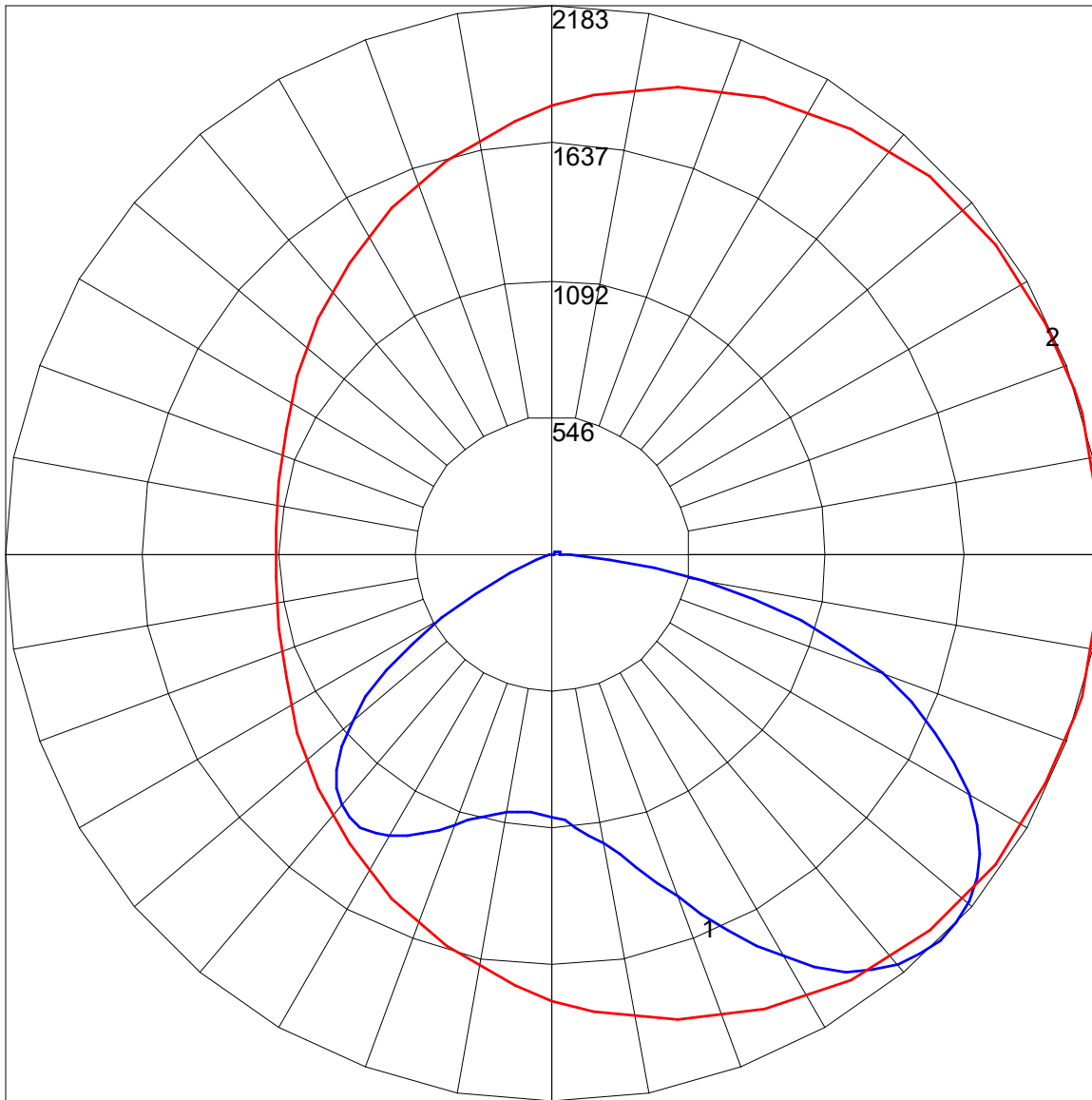


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4296.2	63.7
Downward House Side	2429.5	36.0
Downward Total	6725.7	99.7
Upward Street Side	17.0	0.3
Upward House Side	4.3	0.1
Upward Total	21.3	0.3
Total Flux	6747.0	100.0

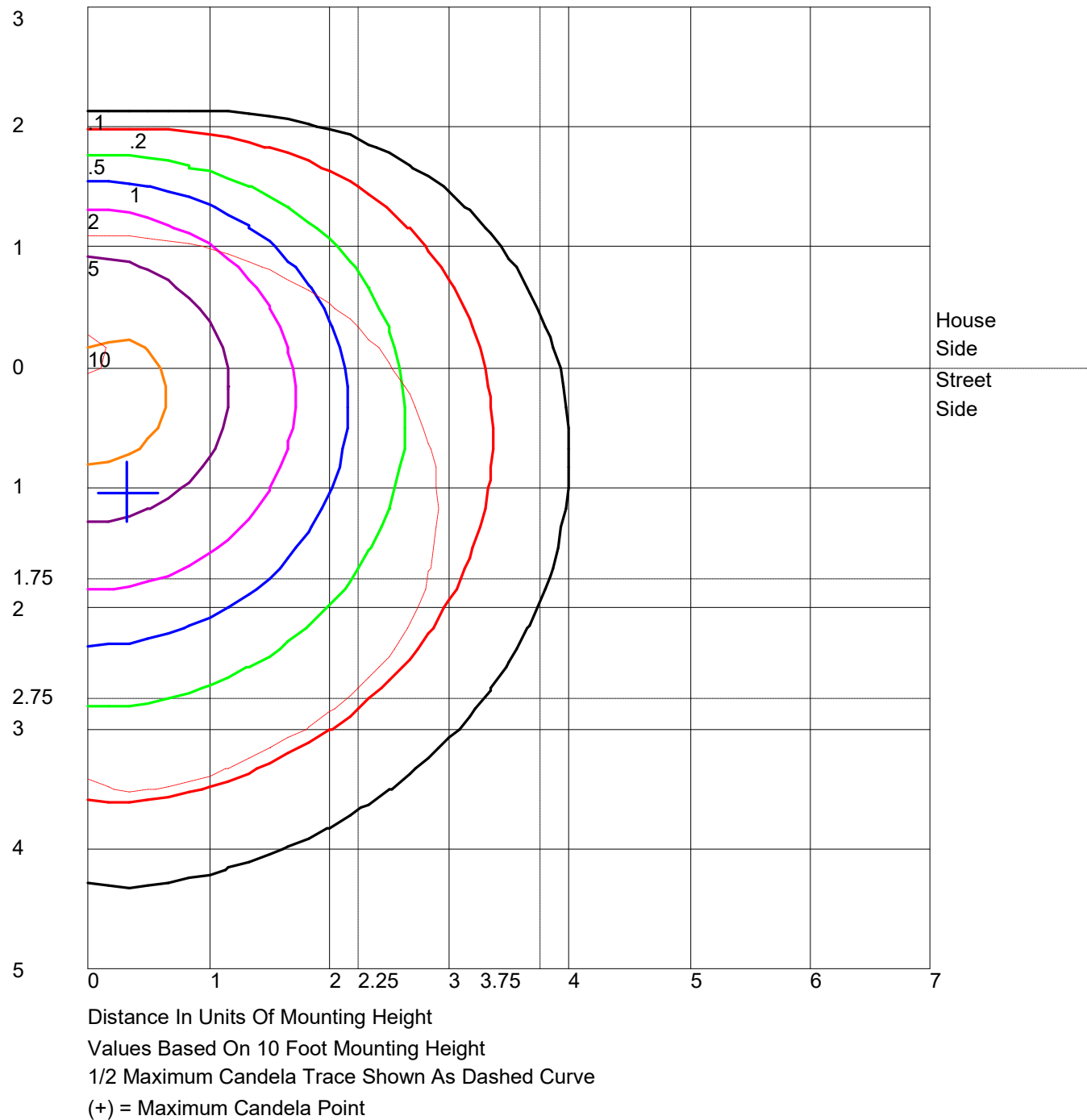


POLAR GRAPH

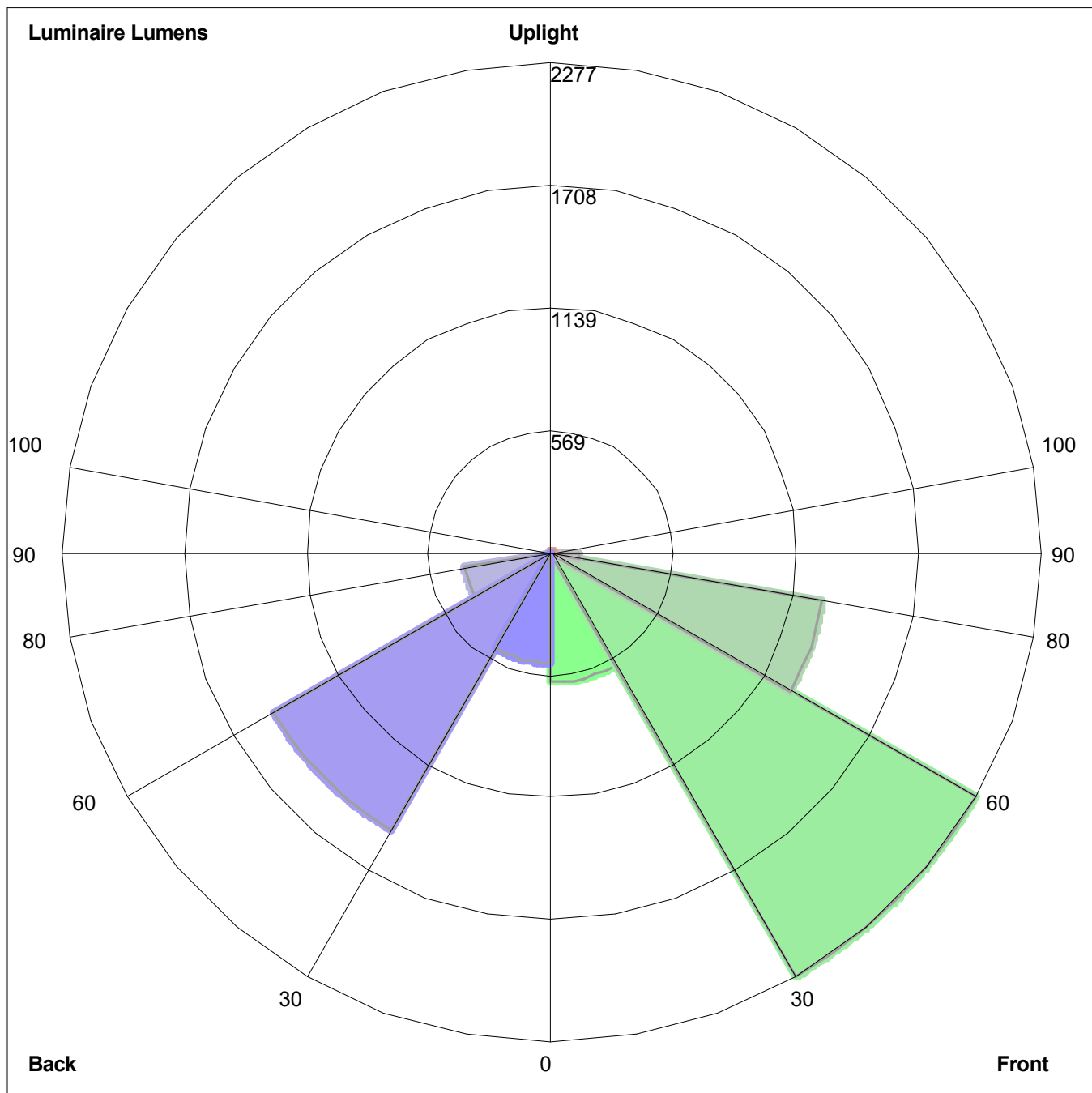


Maximum Candela = 2183 Located At Horizontal Angle = 17.5, Vertical Angle = 47.5  
# 1 - Vertical Plane Through Horizontal Angles (17.5 - 197.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=604.4, Medium=2277.1, High=1283.7, Very High=131.0  
Back: Low=513.4, Medium=1488.6, High=407.7, Very High=19.8  
Uplight: Low=11.0, High=10.2

BUG Rating : B2-U2-G2