



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XLCW-FT-LED-SS-NW.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-6992 Report: LSI-PH0008  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]06/26/15  
[TEST DATE]06/26/15  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XLCW-FT-LED-SS-NW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]3379  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3379
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	39.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2011
Maximum Candela Angle	10H 32.5V
Maximum Candela (<90 Degrees Vertical)	2011
Maximum Candela Angle (<90 Degrees Vertical)	10H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	165 (4.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	594.8	N.A.	17.6
FM - Front-Medium (30-60)	1618.9	N.A.	47.9
FH - Front-High (60-80)	591.1	N.A.	17.5
FVH - Front-Very High (80-90)	12.8	N.A.	0.4
BL - Back-Low (0-30)	208.0	N.A.	6.2
BM - Back-Medium (30-60)	283.7	N.A.	8.4
BH - Back-High (60-80)	64.4	N.A.	1.9
BVH - Back-Very High (80-90)	4.9	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3378.6	N.A.	100.0
BUG Rating	B1-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>10</b></u>	<u><b>15</b></u>	<u><b>25</b></u>	<u><b>35</b></u>	<u><b>45</b></u>	<u><b>55</b></u>	<u><b>65</b></u>	<u><b>75</b></u>
<b>0.0</b>	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354
<b>2.5</b>	1408	1409	1410	1413	1421	1425	1423	1420	1414	1408
<b>5.0</b>	1446	1445	1443	1451	1468	1477	1480	1473	1459	1444
<b>7.5</b>	1341	1339	1342	1348	1364	1389	1437	1486	1492	1464
<b>10.0</b>	1303	1300	1304	1315	1330	1342	1364	1410	1482	1483
<b>12.5</b>	1255	1261	1265	1278	1291	1305	1336	1367	1424	1490
<b>15.0</b>	1239	1237	1236	1236	1234	1271	1299	1337	1371	1475
<b>17.5</b>	1300	1295	1293	1289	1267	1242	1262	1299	1341	1437
<b>20.0</b>	1419	1410	1401	1382	1328	1286	1241	1272	1320	1386
<b>22.5</b>	1543	1539	1519	1506	1447	1352	1277	1223	1284	1343
<b>25.0</b>	1815	1807	1776	1737	1578	1462	1325	1232	1256	1315
<b>27.5</b>	1861	1860	1858	1857	1827	1599	1416	1256	1211	1279
<b>30.0</b>	1921	1914	1895	1878	1843	1806	1499	1294	1173	1249
<b>32.5</b>	2007	2007	2011	1996	1898	1809	1676	1361	1170	1211
<b>35.0</b>	1943	1942	1936	1941	1954	1841	1744	1414	1174	1168
<b>37.5</b>	1892	1890	1892	1910	1884	1896	1724	1534	1183	1120
<b>40.0</b>	1863	1859	1848	1846	1824	1819	1777	1621	1220	1062
<b>42.5</b>	1865	1861	1883	1876	1780	1756	1751	1583	1241	1009
<b>45.0</b>	1557	1557	1555	1603	1795	1692	1679	1586	1292	978
<b>47.5</b>	1474	1470	1455	1453	1483	1693	1590	1572	1363	950
<b>50.0</b>	1521	1520	1502	1471	1385	1411	1530	1477	1325	926
<b>52.5</b>	1293	1282	1255	1260	1416	1287	1450	1381	1271	914
<b>55.0</b>	1529	1513	1461	1391	1192	1296	1193	1296	1253	895
<b>57.5</b>	1474	1467	1455	1502	1392	1092	1126	1232	1159	877
<b>60.0</b>	1611	1596	1557	1516	1341	1239	1067	993	1054	879
<b>62.5</b>	1618	1623	1617	1659	1465	1206	971	894	948	819
<b>65.0</b>	1139	1120	1162	1258	1410	1304	1053	823	846	736
<b>67.5</b>	593	632	663	736	897	1180	1017	751	634	656
<b>70.0</b>	258	262	285	324	454	684	970	748	549	540
<b>72.5</b>	106	110	126	137	191	286	550	719	449	428
<b>75.0</b>	31	31	31	31	48	113	215	478	426	311
<b>77.5</b>	29	29	29	29	28	26	72	187	363	202
<b>80.0</b>	28	28	27	27	26	24	22	53	165	123
<b>82.5</b>	26	27	26	26	25	23	20	17	34	78
<b>85.0</b>	25	25	25	24	23	21	19	15	12	17
<b>87.5</b>	23	24	23	23	22	20	18	14	11	7
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85</b></u>	<u><b>90</b></u>	<u><b>95</b></u>	<u><b>105</b></u>	<u><b>115</b></u>	<u><b>125</b></u>	<u><b>135</b></u>	<u><b>145</b></u>	<u><b>155</b></u>	<u><b>165</b></u>
<b>0.0</b>	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354
<b>2.5</b>	1404	1392	1383	1369	1355	1339	1315	1280	1259	1238
<b>5.0</b>	1414	1392	1372	1321	1232	1144	1065	986	933	893
<b>7.5</b>	1426	1391	1359	1225	1079	935	795	707	643	605
<b>10.0</b>	1436	1392	1344	1132	924	739	601	507	440	397
<b>12.5</b>	1443	1391	1318	1035	768	583	442	348	303	276
<b>15.0</b>	1447	1388	1284	933	639	450	323	262	241	230
<b>17.5</b>	1449	1384	1248	834	533	342	254	231	216	214
<b>20.0</b>	1448	1377	1208	735	433	274	229	215	219	228
<b>22.5</b>	1446	1370	1171	657	351	240	214	220	239	244
<b>25.0</b>	1438	1360	1127	585	297	219	216	238	246	236
<b>27.5</b>	1424	1347	1083	513	255	213	234	245	222	215

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**CANDELA TABULATION - (Cont.)**

30.0	1406	1329	1034	449	236	215	240	220	209	210
32.5	1378	1308	981	390	220	231	226	208	208	202
35.0	1343	1280	923	345	220	237	210	206	198	202
37.5	1298	1251	859	301	221	228	203	196	198	199
40.0	1241	1217	791	270	239	212	197	196	195	199
42.5	1181	1176	722	251	245	200	191	191	194	198
45.0	1119	1130	651	226	245	199	189	189	193	200
47.5	1055	1084	589	212	226	189	184	186	181	165
50.0	991	1034	532	207	208	189	181	184	161	164
52.5	926	981	482	215	197	181	180	154	154	124
55.0	843	909	420	225	186	176	155	149	104	103
57.5	762	821	360	219	182	172	149	102	89	45
60.0	676	746	314	197	173	164	132	84	5	0
62.5	598	652	254	175	164	153	94	15	0	0
65.0	509	561	202	161	159	122	52	4	0	0
67.5	413	462	164	150	157	93	24	4	0	0
70.0	328	351	129	132	135	55	21	4	0	0
72.5	255	265	94	113	98	44	20	4	0	0
75.0	193	189	71	98	63	43	18	3	0	0
77.5	136	113	51	75	52	38	15	2	0	0
80.0	77	57	27	40	46	30	12	1	0	0
82.5	29	18	14	24	38	24	9	1	0	0
85.0	8	4	6	18	29	19	7	1	0	0
87.5	3	2	4	12	20	13	4	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

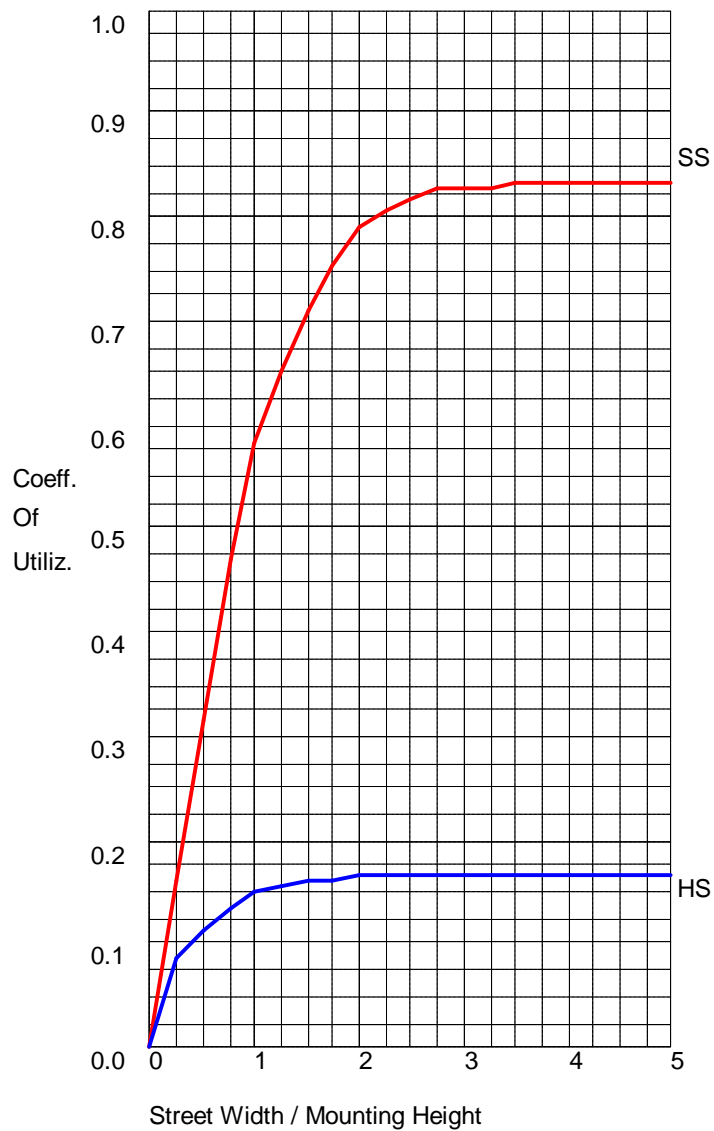
	<b>175</b>	<b>180</b>
0.0	1354	1354
2.5	1244	1243
5.0	890	888
7.5	596	594
10.0	374	381
12.5	262	265
15.0	224	225
17.5	215	216
20.0	234	236
22.5	245	245
25.0	228	227
27.5	212	212
30.0	211	211
32.5	200	201
35.0	203	203
37.5	200	200
40.0	200	200
42.5	199	200
45.0	175	175
47.5	168	168
50.0	161	160
52.5	111	111
55.0	96	95
57.5	3	0
60.0	0	0
62.5	0	0
65.0	0	0

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>0</b>	<b>0</b>
<b>70.0</b>	<b>0</b>	<b>0</b>
<b>72.5</b>	<b>0</b>	<b>0</b>
<b>75.0</b>	<b>0</b>	<b>0</b>
<b>77.5</b>	<b>0</b>	<b>0</b>
<b>80.0</b>	<b>0</b>	<b>0</b>
<b>82.5</b>	<b>0</b>	<b>0</b>
<b>85.0</b>	<b>0</b>	<b>0</b>
<b>87.5</b>	<b>0</b>	<b>0</b>
<b>90.0</b>	<b>0</b>	<b>0</b>

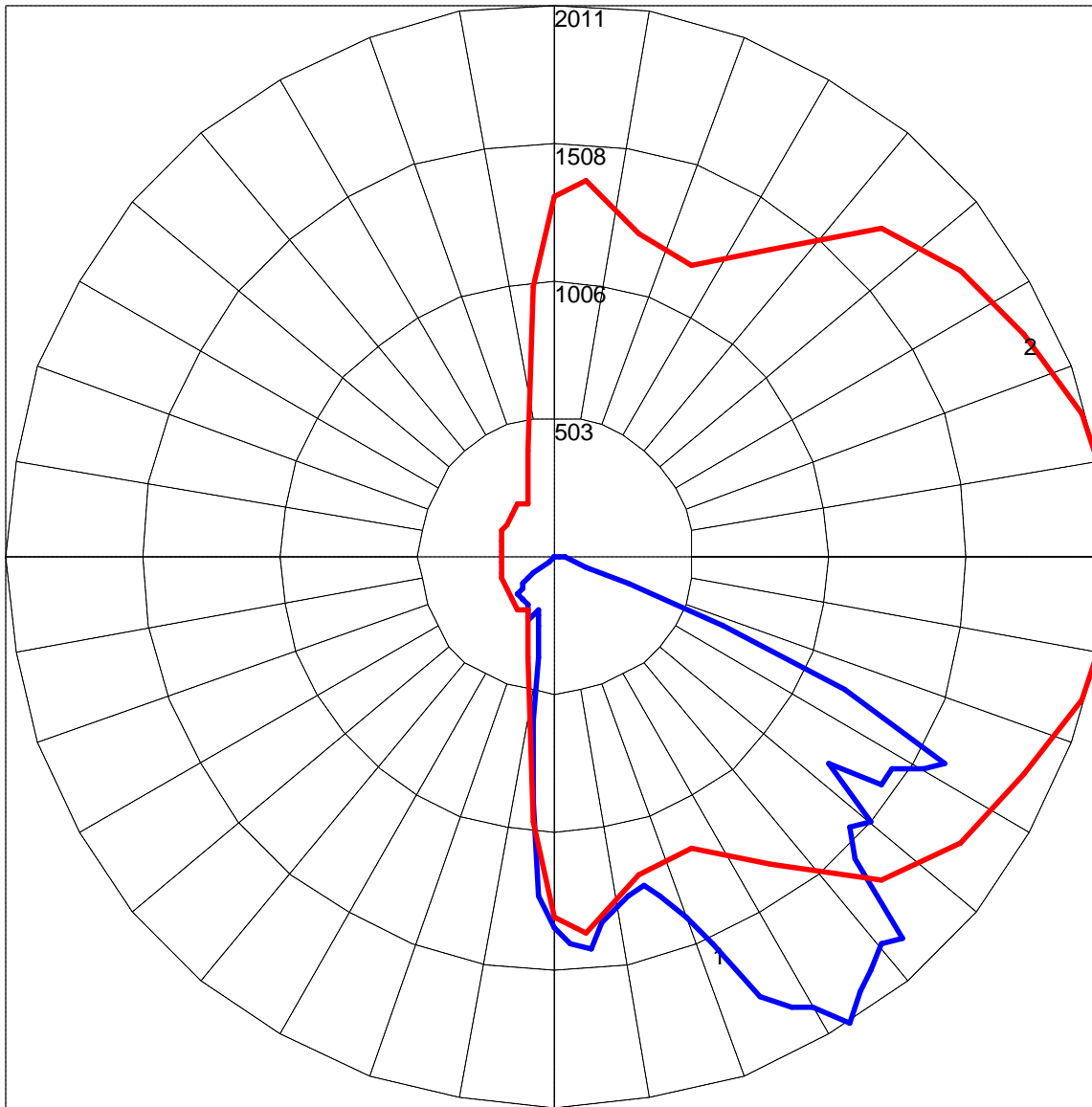
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

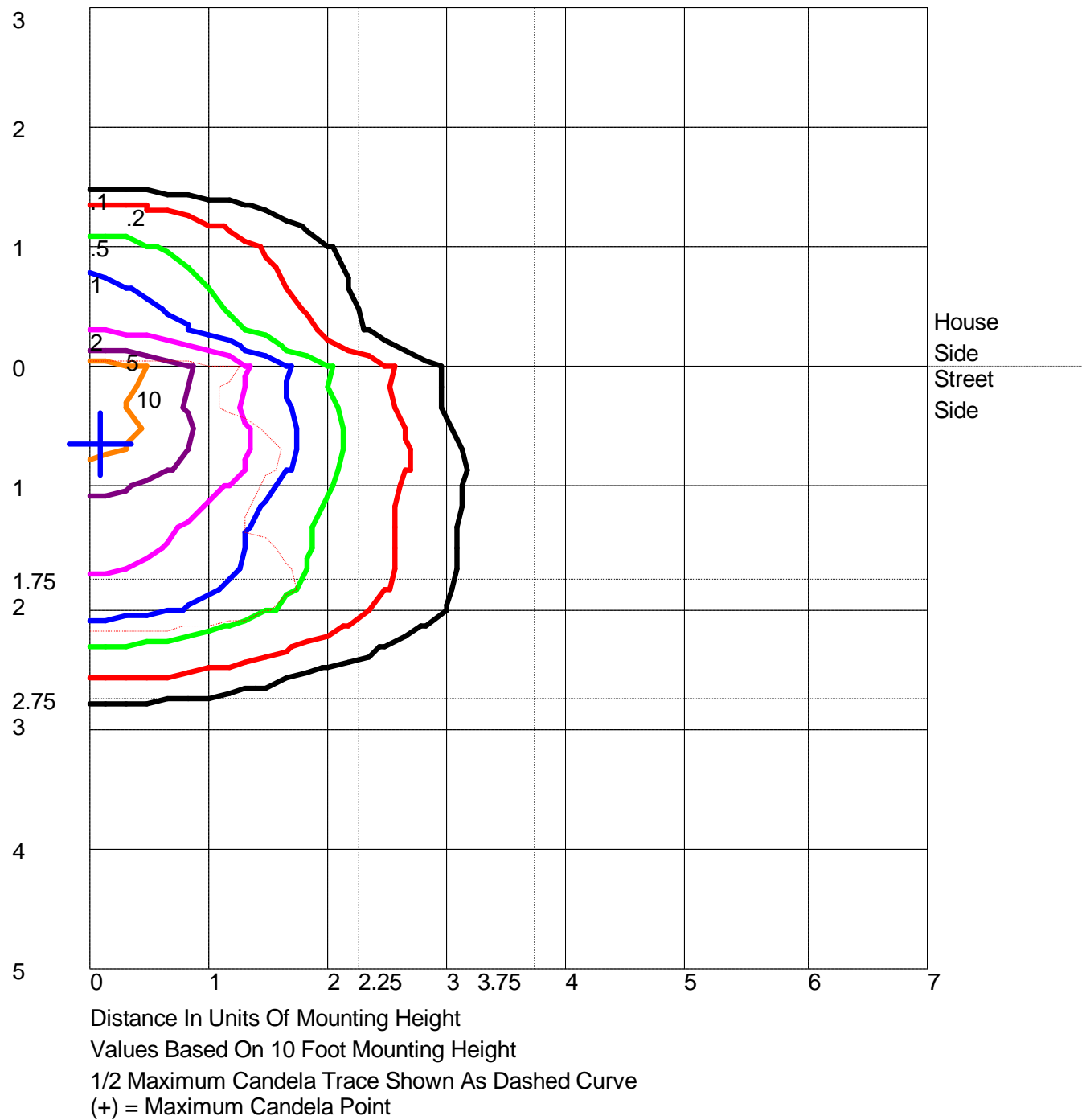
	Lumens	Percent Of Luminaire
Downward Street Side	2817.7	83.4
Downward House Side	561.0	16.6
Downward Total	3378.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3378.7	100.0

POLAR GRAPH



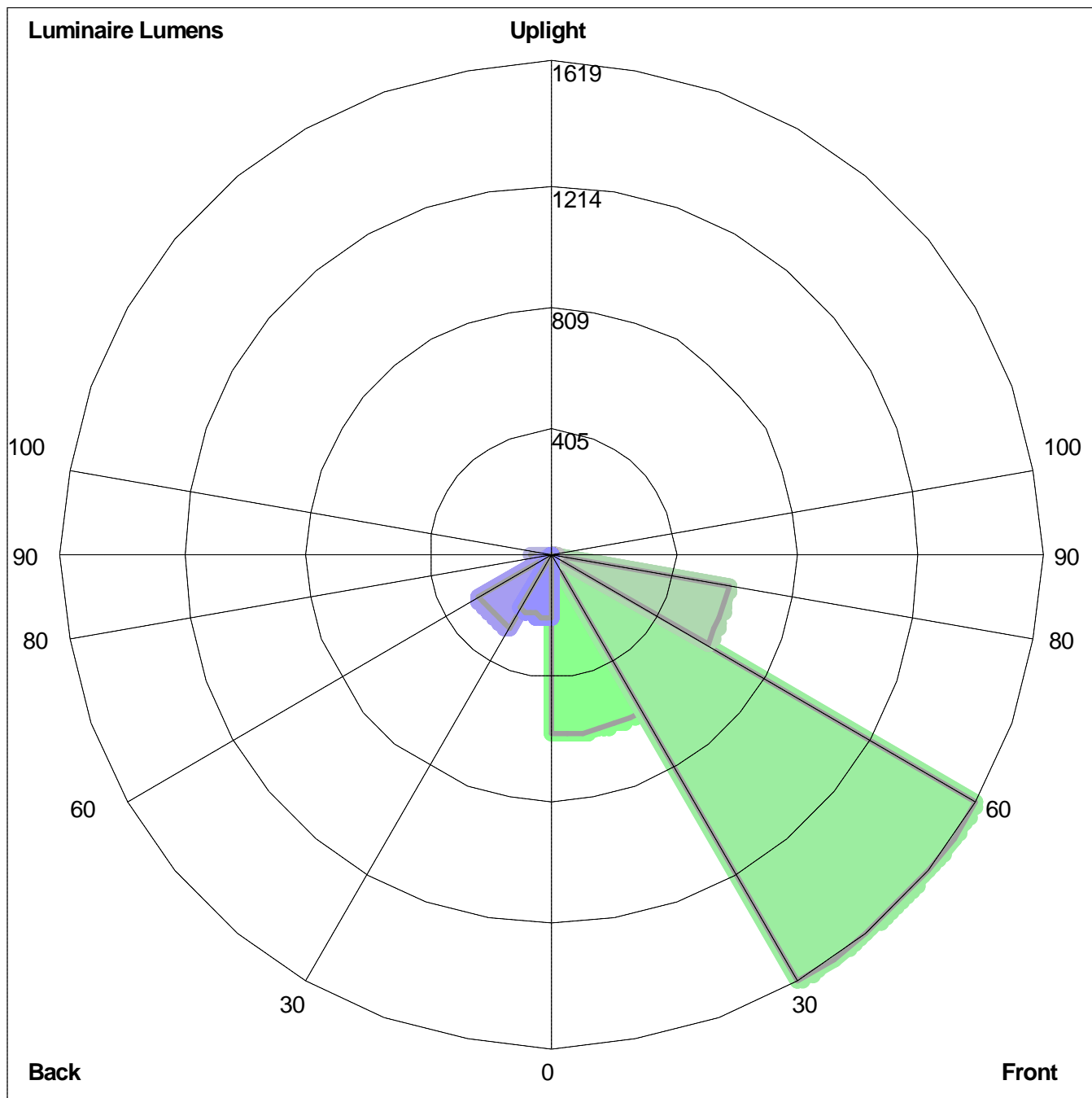
Maximum Candela = 2011 Located At Horizontal Angle = 10, Vertical Angle = 32.5  
# 1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=594.8, Medium=1618.9, High=591.1, Very High=12.8  
Back: Low=208.0, Medium=283.7, High=64.4, Very High=4.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1