



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-40.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11782  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/29/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-FT-LED-05L-40  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5624
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3361
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3361
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1214 (21.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	333.9	N.A.	5.9
FM - Front-Medium (30-60)	1695.1	N.A.	30.1
FH - Front-High (60-80)	1923.1	N.A.	34.2
FVH - Front-Very High (80-90)	125.3	N.A.	2.2
BL - Back-Low (0-30)	351.2	N.A.	6.2
BM - Back-Medium (30-60)	818.7	N.A.	14.6
BH - Back-High (60-80)	347.0	N.A.	6.2
BVH - Back-Very High (80-90)	29.2	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5623.5	N.A.	100.0
BUG Rating	B1-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
<b>0.0</b>	772	772	772	772	772	772	772	772	772	772
<b>2.5</b>	757	759	762	763	767	767	769	769	771	773
<b>5.0</b>	728	731	735	739	748	749	755	760	767	772
<b>7.5</b>	691	694	700	707	720	725	733	748	763	773
<b>10.0</b>	663	665	672	683	698	706	716	735	759	778
<b>12.5</b>	647	648	656	669	686	697	709	732	760	788
<b>15.0</b>	645	647	654	668	687	699	712	736	766	797
<b>17.5</b>	662	664	671	682	702	714	725	748	776	805
<b>20.0</b>	697	699	706	716	731	740	749	767	789	816
<b>22.5</b>	749	751	759	767	774	780	784	793	808	827
<b>25.0</b>	813	815	824	829	834	831	830	826	829	838
<b>27.5</b>	889	895	899	903	902	894	887	867	855	850
<b>30.0</b>	974	981	986	987	981	968	955	917	885	862
<b>32.5</b>	1074	1073	1079	1079	1068	1055	1036	981	919	875
<b>35.0</b>	1163	1165	1173	1176	1163	1152	1123	1056	964	891
<b>37.5</b>	1256	1257	1271	1275	1265	1252	1219	1139	1016	913
<b>40.0</b>	1351	1352	1369	1381	1373	1360	1330	1235	1084	945
<b>42.5</b>	1446	1454	1468	1490	1489	1477	1444	1342	1164	991
<b>45.0</b>	1539	1547	1573	1601	1618	1600	1567	1460	1259	1050
<b>47.5</b>	1626	1634	1669	1719	1746	1731	1700	1590	1370	1125
<b>50.0</b>	1698	1705	1753	1833	1873	1863	1838	1733	1497	1222
<b>52.5</b>	1746	1757	1817	1923	1996	1991	1979	1890	1645	1344
<b>55.0</b>	1766	1776	1848	1987	2098	2113	2129	2065	1817	1497
<b>57.5</b>	1766	1777	1857	2021	2174	2222	2273	2260	2023	1672
<b>60.0</b>	1767	1775	1860	2037	2232	2328	2415	2500	2257	1853
<b>62.5</b>	1789	1796	1881	2056	2292	2423	2559	2741	2490	2011
<b>65.0</b>	1868	1876	1956	2131	2382	2556	2746	2945	2662	2070
<b>67.5</b>	1950	1965	2092	2313	2605	2792	2959	3084	2680	1923
<b>70.0</b>	1940	1958	2118	2532	2983	3112	3190	3069	2370	1477
<b>72.5</b>	1795	1805	2016	2576	3252	3361	3304	2712	1715	909
<b>75.0</b>	1349	1349	1627	2243	2972	3173	2954	1957	1054	533
<b>77.5</b>	679	735	995	1530	2128	2299	2049	1216	644	352
<b>80.0</b>	315	366	571	858	1171	1214	1179	736	399	212
<b>82.5</b>	167	182	351	511	540	654	645	393	225	113
<b>85.0</b>	123	130	224	301	338	330	310	168	112	62
<b>87.5</b>	84	91	136	156	196	146	67	58	36	27
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
<b>0.0</b>	772	772	772	772	772	772	772	772	772	772
<b>2.5</b>	776	778	778	776	781	780	780	780	779	779
<b>5.0</b>	779	782	783	785	789	788	786	784	783	782
<b>7.5</b>	783	789	791	793	794	791	791	793	795	797
<b>10.0</b>	792	798	800	799	798	799	804	809	813	816
<b>12.5</b>	806	812	814	808	806	811	819	825	829	831
<b>15.0</b>	820	826	826	815	813	823	832	837	841	841
<b>17.5</b>	834	842	840	821	823	834	843	846	847	846
<b>20.0</b>	846	854	851	824	831	841	850	850	849	849
<b>22.5</b>	856	865	861	826	837	848	852	852	851	851
<b>25.0</b>	861	871	866	823	838	851	853	851	851	852
<b>27.5</b>	863	872	865	816	835	849	849	848	850	851

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**CANDELA TABULATION - (Cont.)**

30.0	862	869	861	806	827	843	843	843	847	851
32.5	859	861	852	790	816	834	834	835	842	850
35.0	853	851	839	773	799	819	821	825	837	850
37.5	850	840	825	752	780	801	805	811	830	847
40.0	853	831	812	728	759	781	786	796	824	844
42.5	864	828	799	704	731	758	760	776	816	826
45.0	885	831	790	678	702	731	732	753	814	767
47.5	918	844	787	653	668	699	700	725	778	709
50.0	967	870	792	631	633	665	665	702	728	656
52.5	1042	911	806	611	594	627	628	673	673	606
55.0	1133	966	831	595	556	589	590	632	619	560
57.5	1246	1036	865	586	517	550	553	583	562	506
60.0	1356	1103	885	580	479	511	514	531	495	456
62.5	1423	1114	839	567	443	472	475	475	442	419
65.0	1393	1025	698	534	404	432	430	432	400	390
67.5	1187	817	501	467	361	392	392	399	364	366
70.0	802	538	348	369	315	349	362	363	329	343
72.5	420	289	247	281	265	302	320	326	291	301
75.0	271	178	158	205	207	244	271	273	209	197
77.5	172	113	104	142	155	189	211	164	139	150
80.0	93	68	71	103	118	139	123	122	109	119
82.5	59	46	49	74	89	78	86	92	75	87
85.0	35	24	27	47	43	48	54	53	37	55
87.5	12	5	9	16	17	19	18	19	15	24
90.0	0	0	0	0	0	0	0	0	0	0

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

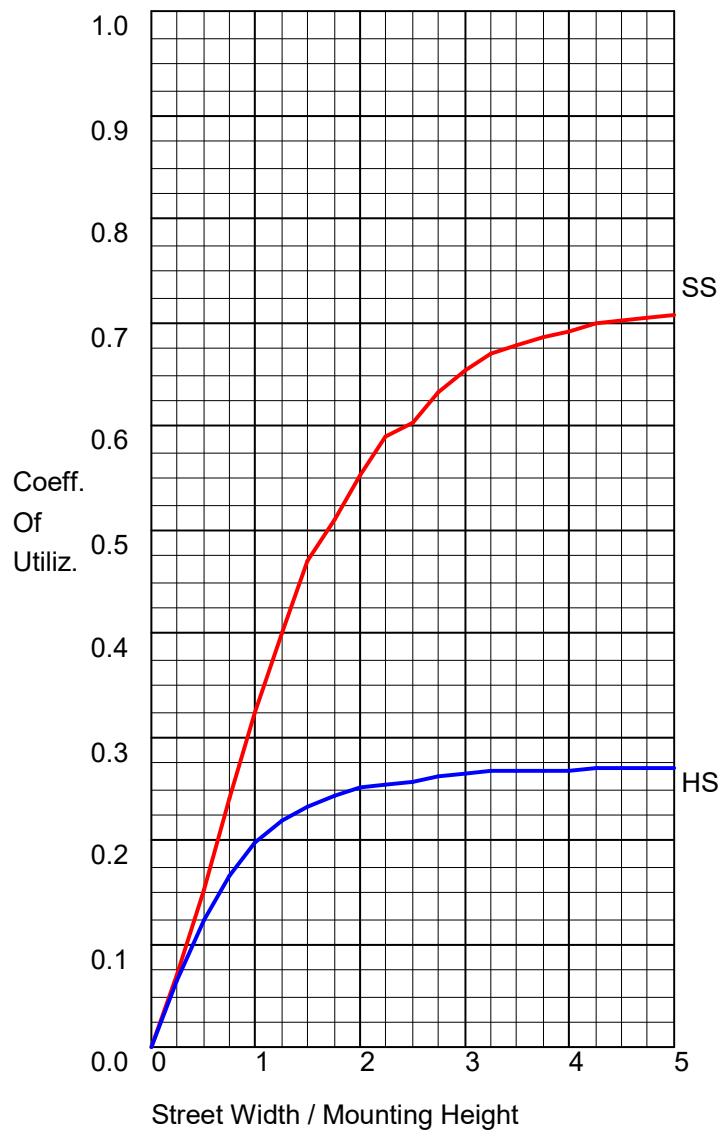
	<b>175</b>	<b>180</b>
0.0	772	772
2.5	778	776
5.0	781	780
7.5	796	795
10.0	815	814
12.5	830	829
15.0	840	839
17.5	845	843
20.0	847	846
22.5	849	848
25.0	851	849
27.5	852	850
30.0	852	850
32.5	852	849
35.0	849	847
37.5	843	838
40.0	833	826
42.5	768	759
45.0	709	701
47.5	660	653
50.0	616	609
52.5	570	563
55.0	526	518
57.5	470	458
60.0	428	415
62.5	395	385
65.0	376	367

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	362	352
<b>70.0</b>	347	336
<b>72.5</b>	312	302
<b>75.0</b>	219	217
<b>77.5</b>	193	194
<b>80.0</b>	162	169
<b>82.5</b>	127	135
<b>85.0</b>	88	97
<b>87.5</b>	47	56
<b>90.0</b>	0	0

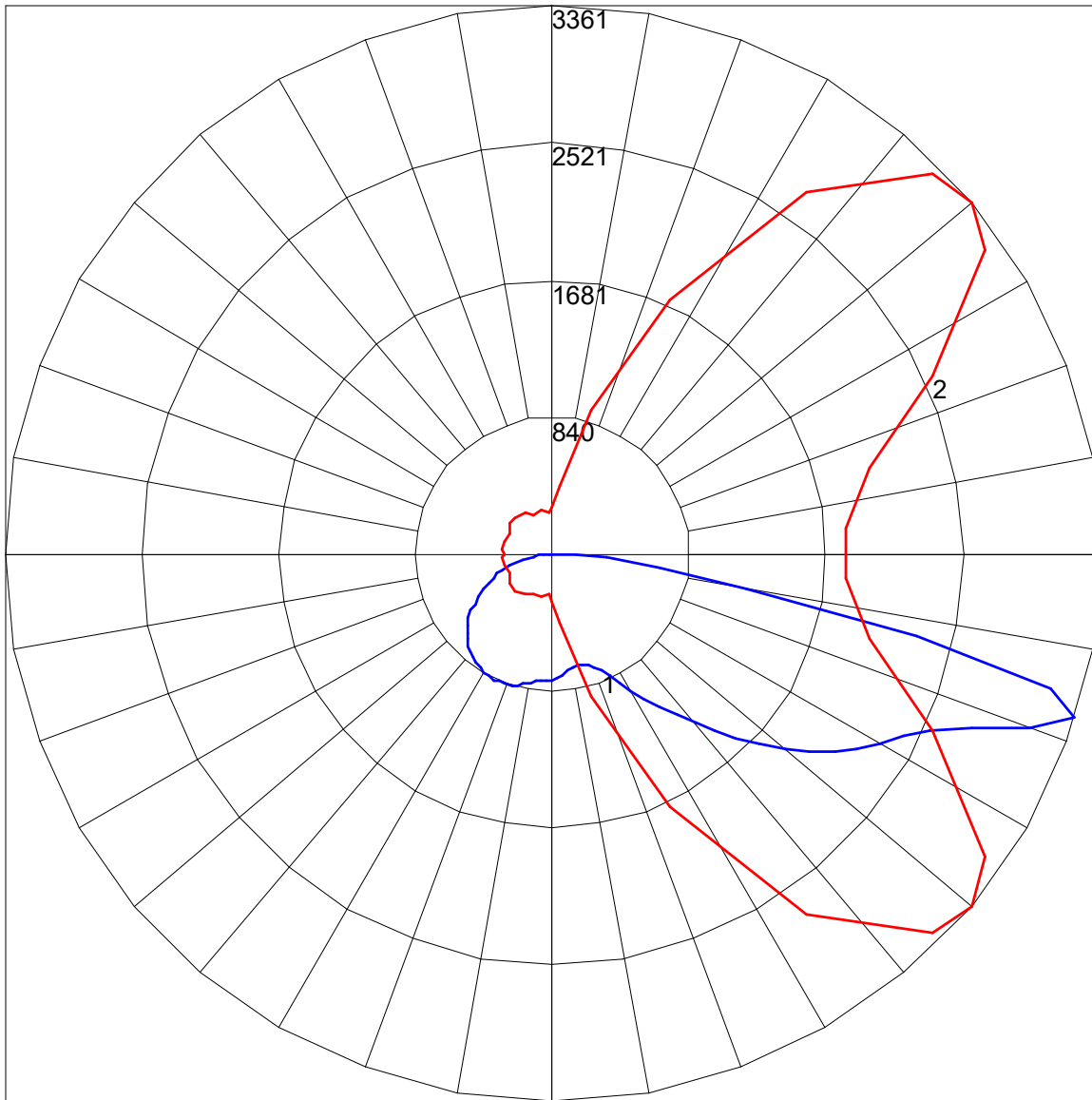
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

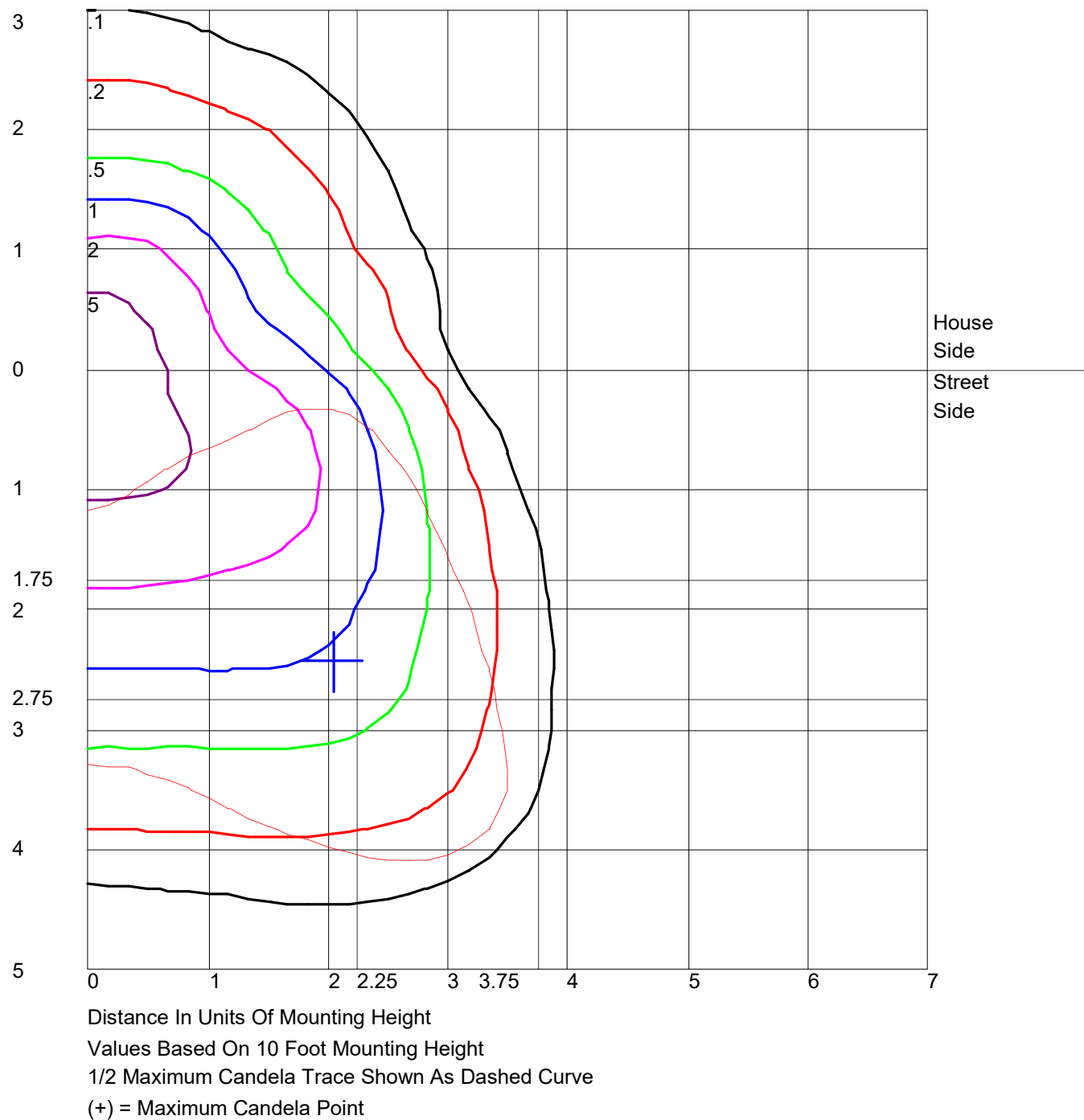
	Lumens	Percent Of Luminaire
Downward Street Side	4077.5	72.5
Downward House Side	1546.0	27.5
Downward Total	5623.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5623.5	100.0

POLAR GRAPH



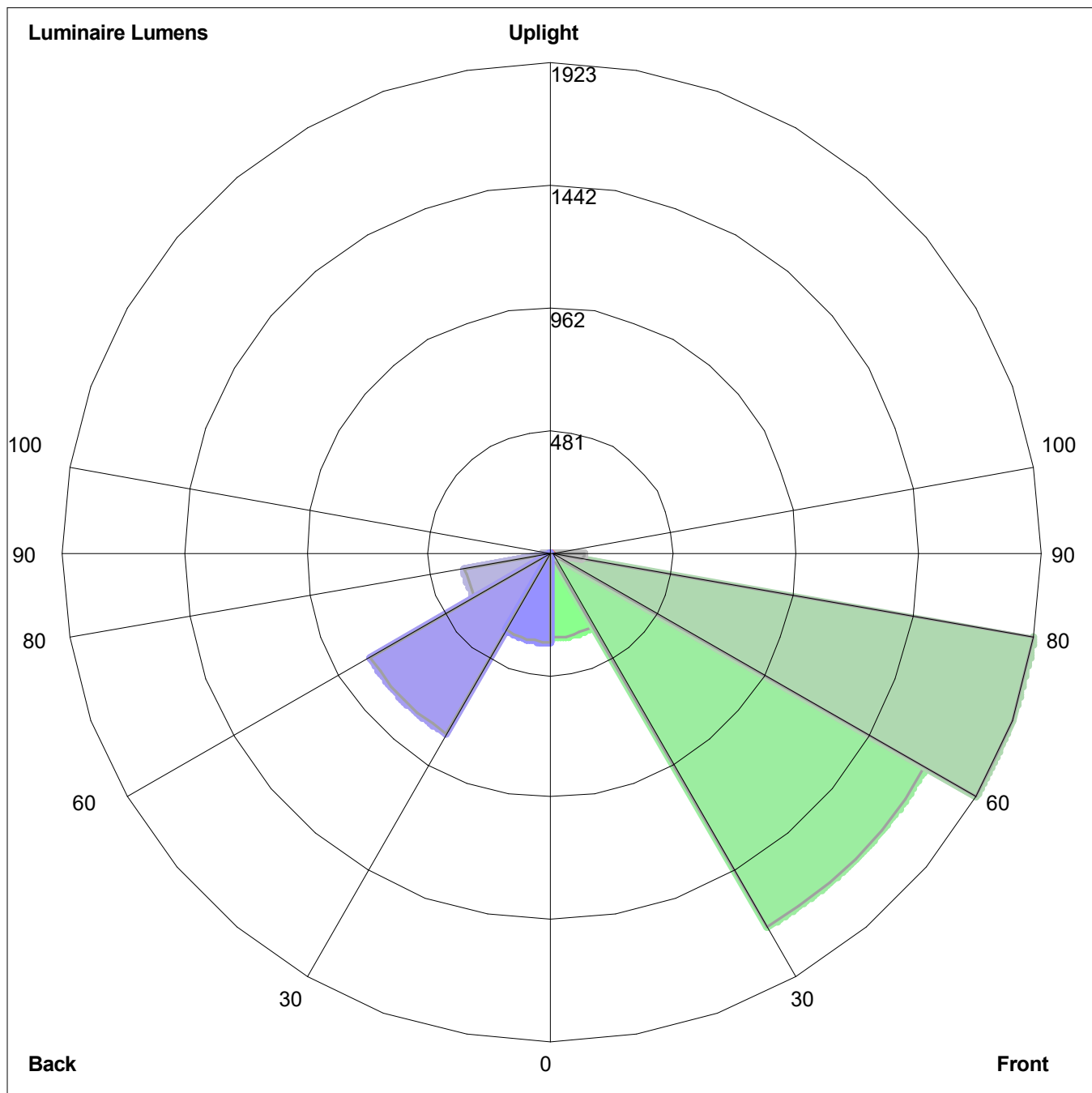
Maximum Candela = 3361 Located At Horizontal Angle = 40, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=333.9, Medium=1695.1, High=1923.1, Very High=125.3  
Back: Low=351.2, Medium=818.7, High=347.0, Very High=29.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2