



**IES ROAD REPORT**

**PHOTOMETRIC FILENAME : ITL48610.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-1995

[DATE]01/14/99

[TEST]ITL48610

[MANUFAC]LEXALITE INTERNATIONAL CORPORATION

[LUMCAT]MODEL 424 TYPE III

[LUMINAIRE]CAST METAL POST-TOP FITTER AND SOCKET BASE, CLEAR MOLDED

[MORE]ACRYLIC PRISMATIC REFRACTOR WITH FORMED PERFORATED SEMI-

[MORE]SPECULAR METAL UPPER REFLECTOR, CLEAR MOLDED ACRYLIC LINEAR

[MORE]PRISMATIC DECORATIVE TOP.

[LAMP]ONE 150-WATT DIFFUSE ED-23.5 HIGH PRESSURE SODIUM, VERTICAL

[MORE]BASE-DOWN POSITION.

[\_ARCVOLTSRISE] 2.3

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**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Medium
Cutoff Classification	Non-Cutoff
Total Rated Lamp Lumens	15000
Maximum Candela	7792
Maximum Candela Angle	73.3H 67.5V
Maximum Candela At 90 Degrees Vertical	1169 (7.79% Lamp Lms)
Maximum Candela At 80 Degrees Vertical	4070 (27.13% Lamp Lms)
Downward Total Efficiency	66.7%

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>73.3</u>	<u>75</u>
<b>0</b>	115	115	115	115	115	115	115	115	115	115
<b>2.5</b>	162	154	162	146	146	138	146	146	154	162
<b>5</b>	179	179	179	188	188	188	188	188	188	188
<b>7.5</b>	229	213	230	221	229	246	246	246	254	254
<b>10</b>	311	311	360	327	360	377	393	385	377	385
<b>12.5</b>	375	375	440	409	473	506	523	506	490	490
<b>15</b>	407	407	489	489	538	588	613	588	564	554
<b>17.5</b>	440	440	537	521	613	679	720	687	645	629
<b>20</b>	473	473	589	572	696	803	852	802	727	703
<b>22.5</b>	540	556	705	655	845	993	1059	978	852	819
<b>25</b>	655	654	832	750	1012	1192	1293	1211	1030	973
<b>27.5</b>	718	700	862	780	1049	1262	1445	1340	1117	1052
<b>30</b>	766	733	894	797	1090	1335	1556	1496	1217	1135
<b>32.5</b>	835	793	928	840	1150	1392	1636	1677	1369	1259
<b>35</b>	967	900	1012	923	1256	1475	1738	1912	1594	1438
<b>37.5</b>	1077	997	1091	1021	1352	1579	1891	2240	1890	1718
<b>40</b>	1137	1073	1136	1088	1411	1627	1976	2540	2184	1980
<b>42.5</b>	1152	1079	1134	1087	1392	1572	1899	2678	2364	2154
<b>45</b>	1188	1117	1155	1124	1406	1514	1753	2679	2520	2321
<b>47.5</b>	1290	1243	1240	1225	1501	1581	1694	2718	2765	2613
<b>50</b>	1421	1372	1354	1347	1642	1734	1808	2985	3243	3079
<b>52.5</b>	1531	1483	1447	1450	1792	1926	2065	3340	3795	3617
<b>55</b>	1632	1593	1521	1553	1916	2103	2363	3779	4371	4204
<b>57.5</b>	1823	1789	1742	1770	2235	2506	2957	4537	5291	5154
<b>60</b>	2090	2046	1995	2081	2649	3030	3678	5431	6352	6200
<b>62.5</b>	2209	2227	2143	2262	2897	3329	4204	6088	7187	7066
<b>65</b>	2299	2306	2199	2362	3017	3462	4565	6587	7670	7532
<b>67.5</b>	2340	2340	2228	2375	3029	3489	4814	6811	7792	7684
<b>68</b>	2326	2328	2212	2354	3002	3459	4799	6794	7746	7639
<b>70</b>	2239	2257	2120	2244	2858	3277	4640	6595	7472	7335
<b>72.5</b>	2109	2124	2004	2091	2645	2924	4168	5990	6801	6628
<b>75</b>	1972	1981	1871	1956	2428	2673	3755	5274	5903	5886
<b>77.5</b>	1775	1800	1713	1769	2152	2370	3287	4510	4989	4943
<b>80</b>	1576	1601	1514	1585	1895	2040	2706	3728	4070	3991

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	1327	1356	1291	1336	1558	1643	2186	2911	3105	3059
<b>85</b>	1040	1038	1025	1058	1225	1221	1622	2180	2239	2202
<b>87.5</b>	818	810	796	842	948	957	1181	1549	1627	1613
<b>90</b>	613	618	614	636	699	719	880	1169	1143	1140
<b>95</b>	410	410	402	401	415	431	508	583	609	617
<b>105</b>	334	335	327	319	318	318	366	430	470	461
<b>115</b>	318	335	327	319	319	319	382	486	510	494
<b>125</b>	286	294	294	286	278	294	342	437	436	420
<b>135</b>	254	254	254	246	239	271	343	413	365	341
<b>145</b>	238	238	238	238	254	309	380	403	364	349
<b>155</b>	206	198	198	206	222	237	260	268	261	261
<b>165</b>	158	158	158	158	166	174	173	173	173	173
<b>175</b>	174	166	174	166	158	166	166	166	166	166
<b>180</b>	170	170	170	170	170	170	170	170	170	170

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

	<b>85</b>	<b>90</b>	<b>95</b>	<b>105</b>	<b>115</b>	<b>125</b>	<b>135</b>	<b>145</b>	<b>155</b>	<b>165</b>
<b>0</b>	115	115	115	115	115	115	115	115	115	115
<b>2.5</b>	154	154	146	146	130	122	122	114	105	97
<b>5</b>	196	196	196	196	179	179	163	154	154	146
<b>7.5</b>	245	254	245	237	229	221	213	205	196	179
<b>10</b>	352	351	335	319	294	270	270	261	237	229
<b>12.5</b>	433	424	400	367	343	326	310	294	278	261
<b>15</b>	497	480	456	415	383	358	342	326	310	294
<b>17.5</b>	546	512	480	447	415	383	358	358	334	326
<b>20</b>	596	545	513	463	431	407	383	375	359	342
<b>22.5</b>	653	595	545	488	456	448	425	408	392	376
<b>25</b>	717	635	578	520	497	488	481	457	433	442
<b>27.5</b>	739	650	593	535	519	512	521	514	489	506
<b>30</b>	740	650	593	536	520	537	546	555	522	554
<b>32.5</b>	782	676	619	571	554	579	597	613	580	605
<b>35</b>	843	720	662	623	598	621	663	688	630	672
<b>37.5</b>	974	827	754	721	687	694	743	776	719	767
<b>40</b>	1069	914	850	801	744	743	791	839	766	797
<b>42.5</b>	1149	979	922	883	844	818	846	886	812	828
<b>45</b>	1225	1062	1006	981	960	917	886	916	827	842

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**CANDELA TABULATION - (Cont.)**

<b>47.5</b>	1371	1180	1119	1068	1085	1021	928	932	833	839
<b>50</b>	1606	1334	1203	1128	1135	1097	993	940	824	806
<b>52.5</b>	1911	1465	1252	1139	1137	1115	1030	957	824	790
<b>55</b>	2282	1677	1350	1123	1096	1090	1053	981	826	775
<b>57.5</b>	2937	2097	1536	1145	1094	1092	1070	1006	851	775
<b>60</b>	3689	2561	1773	1217	1142	1108	1111	1048	887	780
<b>62.5</b>	4369	3020	1995	1244	1164	1124	1153	1115	963	848
<b>65</b>	4958	3353	2185	1251	1179	1151	1216	1194	1042	929
<b>67.5</b>	5235	3578	2338	1258	1193	1201	1269	1241	1108	1011
<b>68</b>	5225	3554	2332	1254	1193	1202	1275	1243	1119	1025
<b>70</b>	5057	3418	2284	1227	1191	1207	1271	1256	1147	1080
<b>72.5</b>	4639	3152	2173	1176	1172	1189	1253	1238	1162	1133
<b>75</b>	4115	2849	2018	1118	1136	1161	1226	1228	1176	1162
<b>77.5</b>	3521	2465	1791	1040	1076	1109	1173	1193	1182	1176
<b>80</b>	2914	2066	1519	921	991	1034	1100	1151	1173	1181
<b>82.5</b>	2226	1574	1220	767	875	943	1034	1102	1161	1170
<b>85</b>	1603	1159	941	643	766	848	953	1054	1120	1145
<b>87.5</b>	1171	843	694	549	686	783	882	1011	1094	1118
<b>90</b>	852	632	553	467	603	695	829	941	1036	1062
<b>95</b>	501	417	363	356	457	552	687	790	859	916
<b>105</b>	390	342	303	271	285	315	417	464	462	493
<b>115</b>	390	334	295	271	271	286	317	340	316	299
<b>125</b>	317	277	254	254	238	254	270	285	261	246
<b>135</b>	254	223	223	206	207	214	222	222	206	206
<b>145</b>	270	239	215	191	191	191	191	191	183	174
<b>155</b>	230	222	206	191	174	174	174	174	174	174
<b>165</b>	174	174	158	158	158	158	158	158	166	158
<b>175</b>	174	166	158	166	166	166	174	174	166	166
<b>180</b>	170	170	170	170	170	170	170	170	170	170

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

	<u>175</u>	<u>180</u>
<b>0</b>	115	115
<b>2.5</b>	114	97
<b>5</b>	146	146
<b>7.5</b>	179	179

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**CANDELA TABULATION - (Cont.)**

<b>10</b>	212	212
<b>12.5</b>	245	229
<b>15</b>	277	261
<b>17.5</b>	293	277
<b>20</b>	310	294
<b>22.5</b>	343	327
<b>25</b>	392	376
<b>27.5</b>	440	424
<b>30</b>	473	439
<b>32.5</b>	523	474
<b>35</b>	590	540
<b>37.5</b>	671	605
<b>40</b>	734	653
<b>42.5</b>	781	700
<b>45</b>	811	731
<b>47.5</b>	808	744
<b>50</b>	790	726
<b>52.5</b>	756	711
<b>55</b>	726	711
<b>57.5</b>	725	710
<b>60</b>	714	714
<b>62.5</b>	784	770
<b>65</b>	867	884
<b>67.5</b>	977	990
<b>68</b>	994	1012
<b>70</b>	1049	1071
<b>72.5</b>	1110	1118
<b>75</b>	1147	1164
<b>77.5</b>	1167	1190
<b>80</b>	1156	1171
<b>82.5</b>	1139	1155
<b>85</b>	1121	1138
<b>87.5</b>	1095	1119
<b>90</b>	1055	1075
<b>95</b>	925	949
<b>105</b>	532	549
<b>115</b>	299	298

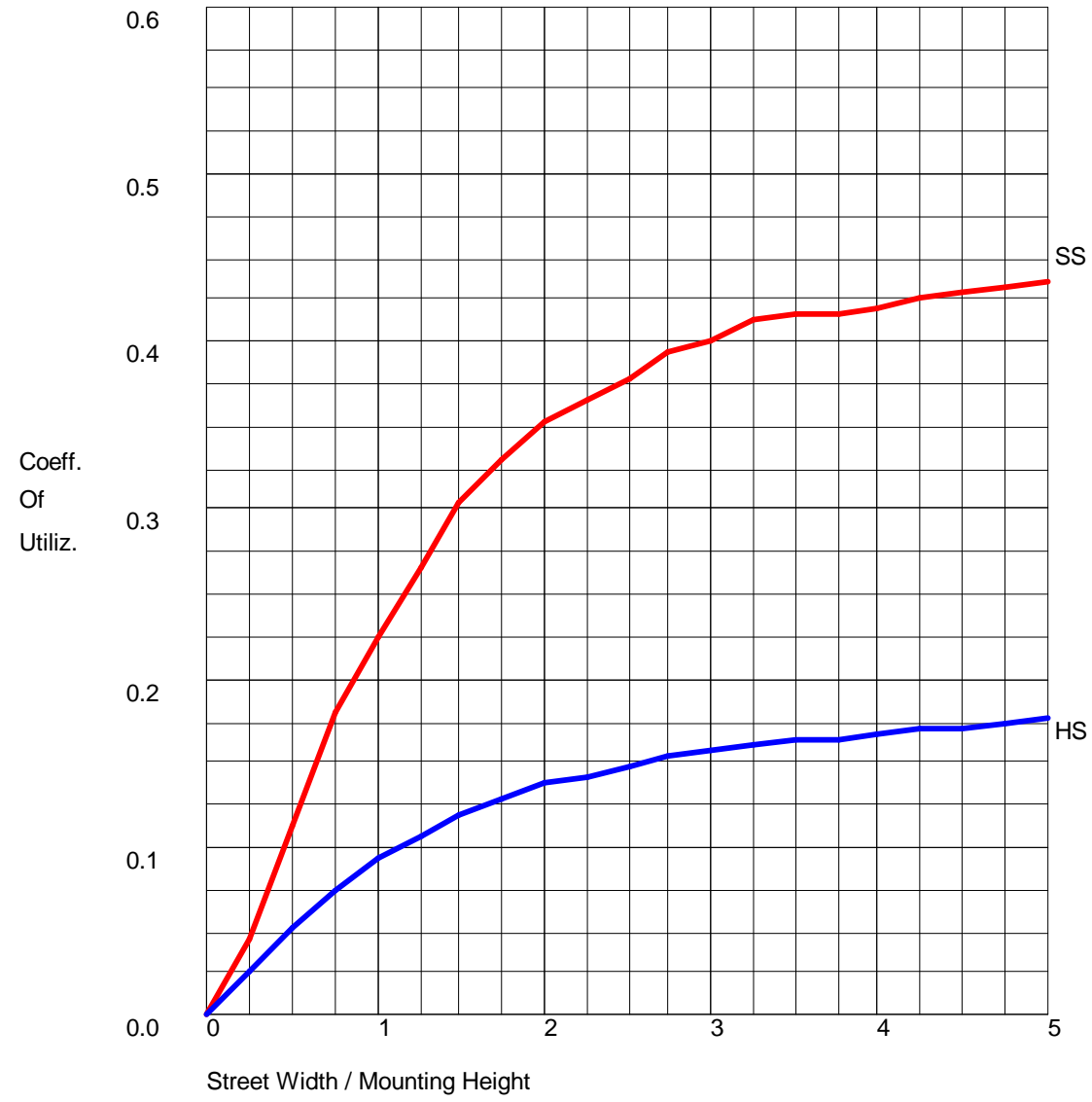
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**CANDELA TABULATION - (Cont.)**

<b>125</b>	238	238
<b>135</b>	198	206
<b>145</b>	174	174
<b>155</b>	174	174
<b>165</b>	158	158
<b>175</b>	166	174
<b>180</b>	170	170

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**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

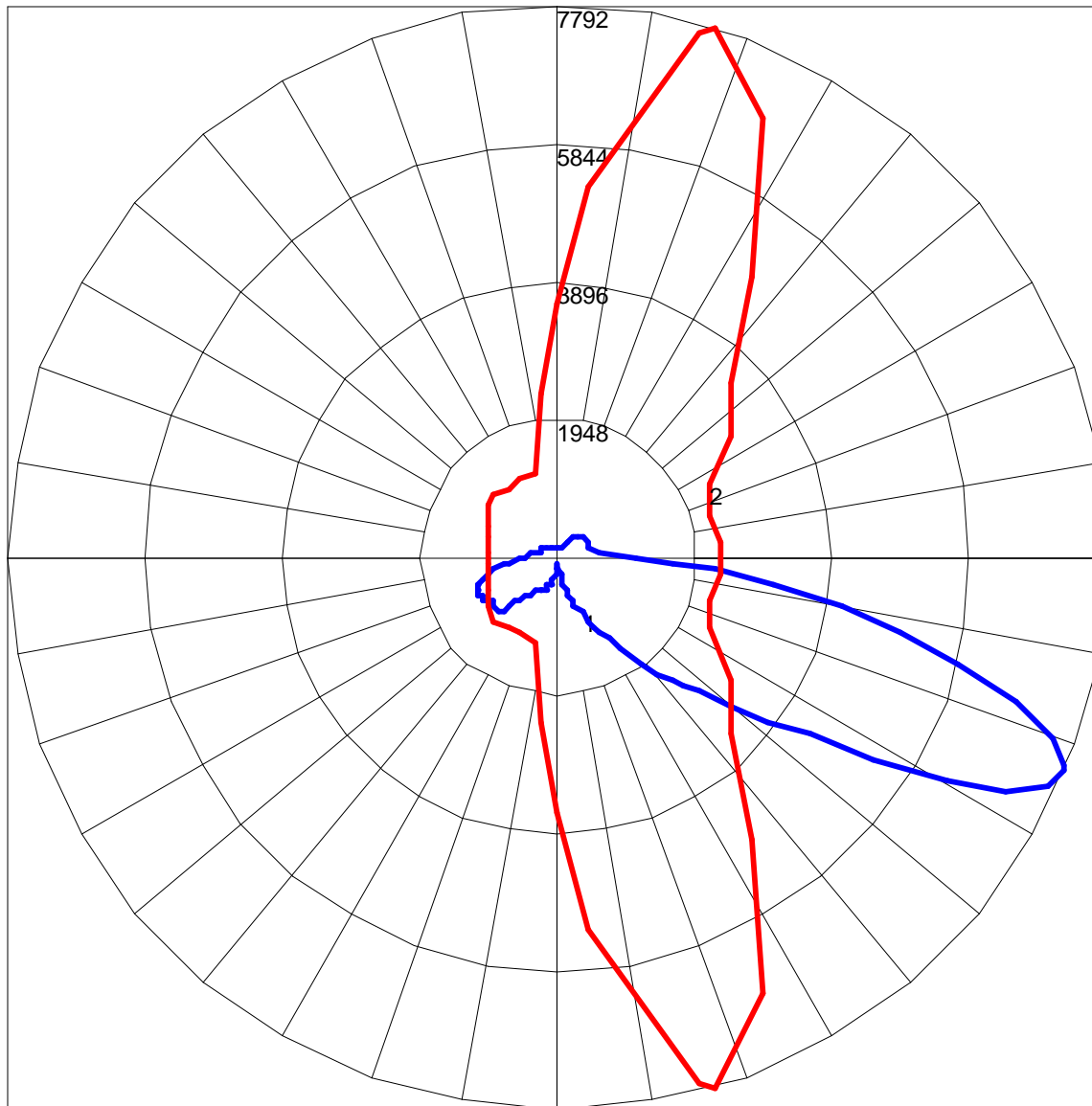
Lumens      Percent  
Of Lamp



Downward Street Side	6992.9	46.6
Downward House Side	3006.9	20.0
Downward Total	9999.8	66.7
Upward Street Side	1116.5	7.4
Upward House Side	1064.3	7.1
Upward Total	2180.8	14.5
Total Flux	12180.6	81.2

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POLAR GRAPH

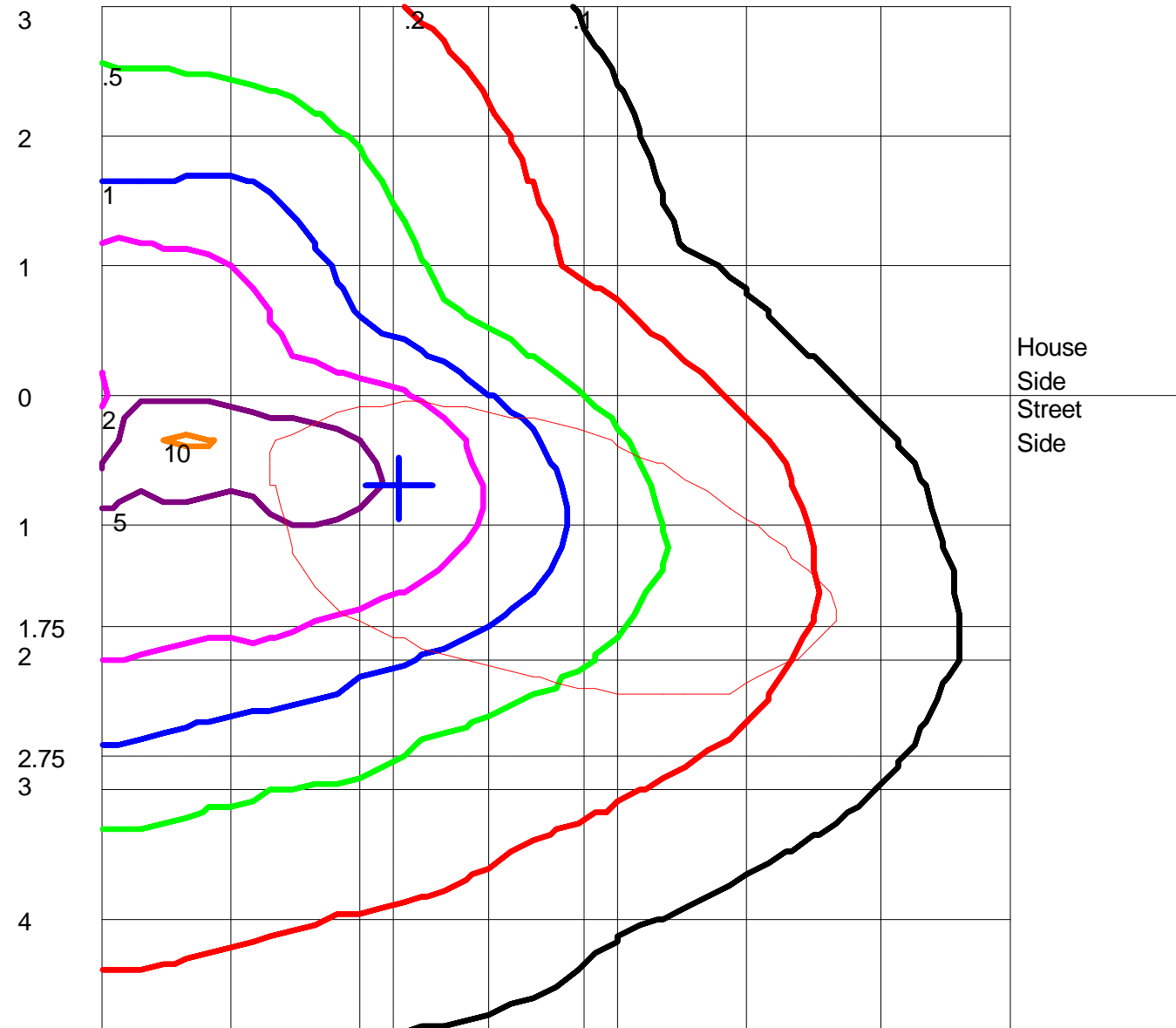


Maximum Candela = 7792 Located At Horizontal Angle = 73.3, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (73.3 - 253.3) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**



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