



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GSR-UD-06L-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12873  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 08/26/2021  
[TEST DATE] 08/04/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] GSR-UD-06L-50  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] OUTDOOR  
[SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6723
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	40
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Maximum Candela	1105
Maximum Candela Angle	90H 175V
Maximum Candela (<90 Degrees Vertical)	1068
Maximum Candela Angle (<90 Degrees Vertical)	90H 5V
Maximum Candela At 90 Degrees Vertical	7 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	95 (1.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	432.3	N.A.	6.4
FM - Front-Medium (30-60)	904.2	N.A.	13.4
FH - Front-High (60-80)	322.7	N.A.	4.8
FVH - Front-Very High (80-90)	15.8	N.A.	0.2
BL - Back-Low (0-30)	432.3	N.A.	6.4
BM - Back-Medium (30-60)	904.2	N.A.	13.4
BH - Back-High (60-80)	322.7	N.A.	4.8
BVH - Back-Very High (80-90)	15.8	N.A.	0.2
UL - Uplight-Low (90-100)	23.0	N.A.	0.3
UH - Uplight-High (100-180)	3350.1	N.A.	49.8
Total	6723.1	N.A.	100.0
BUG Rating	B1-U5-G1		

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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>75</u>	<u>85</u>
<b>0.0</b>	1046	1046	1046	1046	1046	1046	1046	1046	1046	1046
<b>2.5</b>	1028	1028	1029	1037	1044	1051	1055	1060	1064	1066
<b>5.0</b>	1029	1030	1031	1038	1045	1052	1056	1061	1064	1066
<b>7.5</b>	1030	1030	1033	1039	1046	1053	1057	1061	1065	1066
<b>10.0</b>	1031	1030	1033	1038	1045	1051	1056	1059	1063	1064
<b>12.5</b>	1031	1029	1032	1036	1043	1049	1053	1056	1060	1061
<b>15.0</b>	1030	1028	1030	1034	1040	1046	1049	1053	1055	1057
<b>17.5</b>	1028	1026	1027	1032	1037	1042	1045	1047	1051	1052
<b>20.0</b>	1023	1022	1022	1026	1032	1037	1039	1041	1043	1045
<b>22.5</b>	1015	1015	1016	1020	1026	1031	1033	1032	1035	1036
<b>25.0</b>	1005	1004	1005	1009	1016	1021	1023	1023	1024	1025
<b>27.5</b>	992	992	992	996	1002	1008	1010	1011	1012	1013
<b>30.0</b>	977	976	977	980	986	990	993	995	996	997
<b>32.5</b>	956	956	956	960	965	969	973	975	976	977
<b>35.0</b>	933	932	932	937	941	946	949	952	953	954
<b>37.5</b>	906	905	904	909	914	920	923	926	927	927
<b>40.0</b>	877	877	876	880	885	891	894	897	898	898
<b>42.5</b>	846	845	845	849	853	859	863	866	867	867
<b>45.0</b>	813	811	810	814	819	823	827	831	832	833
<b>47.5</b>	775	774	774	777	782	785	789	794	795	796
<b>50.0</b>	734	734	735	738	742	746	749	751	755	756
<b>52.5</b>	691	692	692	695	698	701	703	707	711	712
<b>55.0</b>	645	645	647	650	653	655	658	660	664	665
<b>57.5</b>	596	597	598	602	604	606	609	611	613	614
<b>60.0</b>	546	546	548	549	553	555	557	558	561	558
<b>62.5</b>	492	492	491	491	496	500	500	503	505	503
<b>65.0</b>	436	436	435	435	438	441	444	445	445	443
<b>67.5</b>	375	377	376	377	379	382	384	387	384	383
<b>70.0</b>	314	317	318	318	319	321	325	322	318	318
<b>72.5</b>	254	257	258	259	261	262	261	258	258	256
<b>75.0</b>	196	196	199	201	203	203	201	198	195	196
<b>77.5</b>	131	132	138	143	145	145	143	143	139	139
<b>80.0</b>	74	74	78	82	89	95	94	93	92	89
<b>82.5</b>	30	30	32	36	41	48	54	54	53	52
<b>85.0</b>	9	9	10	11	14	16	22	26	25	24
<b>87.5</b>	6	6	6	7	7	8	9	10	10	10
<b>90.0</b>	4	4	5	5	6	6	7	7	6	6
<b>92.5</b>	7	6	7	7	8	8	9	8	8	9
<b>95.0</b>	8	8	9	9	10	11	13	17	21	23
<b>97.5</b>	13	14	16	18	22	27	32	40	47	50
<b>100.0</b>	36	37	40	44	51	60	67	79	89	90
<b>102.5</b>	77	78	79	89	93	104	118	130	137	138
<b>105.0</b>	130	128	129	140	145	163	179	193	199	195
<b>107.5</b>	192	191	190	194	213	226	241	262	260	259
<b>110.0</b>	251	252	262	267	273	297	312	325	325	330
<b>112.5</b>	316	316	319	328	353	357	389	393	397	397
<b>115.0</b>	375	376	390	408	411	433	450	456	462	466
<b>117.5</b>	455	457	458	462	472	510	512	516	523	528
<b>120.0</b>	508	510	512	520	556	567	571	576	580	584
<b>122.5</b>	564	564	571	600	617	622	629	633	635	639
<b>125.0</b>	643	642	653	663	668	674	679	685	687	690
<b>127.5</b>	708	706	706	710	717	723	727	733	735	738
<b>130.0</b>	753	752	753	758	762	767	772	776	780	784

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**CANDELA TABULATION - (Cont.)**

132.5	795	793	795	801	805	809	814	817	821	824
135.0	834	833	835	841	845	848	855	858	861	863
137.5	869	867	869	875	881	884	889	892	897	899
140.0	899	899	902	907	912	918	922	922	930	931
142.5	928	931	932	937	944	950	953	954	960	959
145.0	955	958	958	964	972	977	980	983	986	984
147.5	980	981	983	990	996	1000	1005	1006	1009	1007
150.0	1004	1005	1007	1012	1017	1022	1025	1027	1028	1028
152.5	1024	1023	1025	1030	1035	1039	1042	1044	1047	1046
155.0	1037	1036	1039	1043	1047	1051	1054	1057	1060	1060
157.5	1045	1046	1048	1052	1057	1062	1066	1068	1070	1072
160.0	1050	1052	1054	1059	1064	1069	1074	1077	1079	1081
162.5	1055	1055	1058	1066	1071	1075	1081	1083	1086	1088
165.0	1058	1059	1062	1071	1076	1082	1086	1089	1092	1094
167.5	1062	1060	1065	1073	1080	1085	1090	1093	1097	1099
170.0	1063	1062	1067	1074	1082	1087	1092	1096	1100	1102
172.5	1062	1061	1067	1073	1082	1087	1094	1098	1102	1104
175.0	1061	1061	1067	1072	1081	1087	1094	1097	1102	1104
177.5	1059	1060	1065	1071	1080	1086	1093	1096	1101	1103
180.0	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081

**Vert. Horizontal Angles**

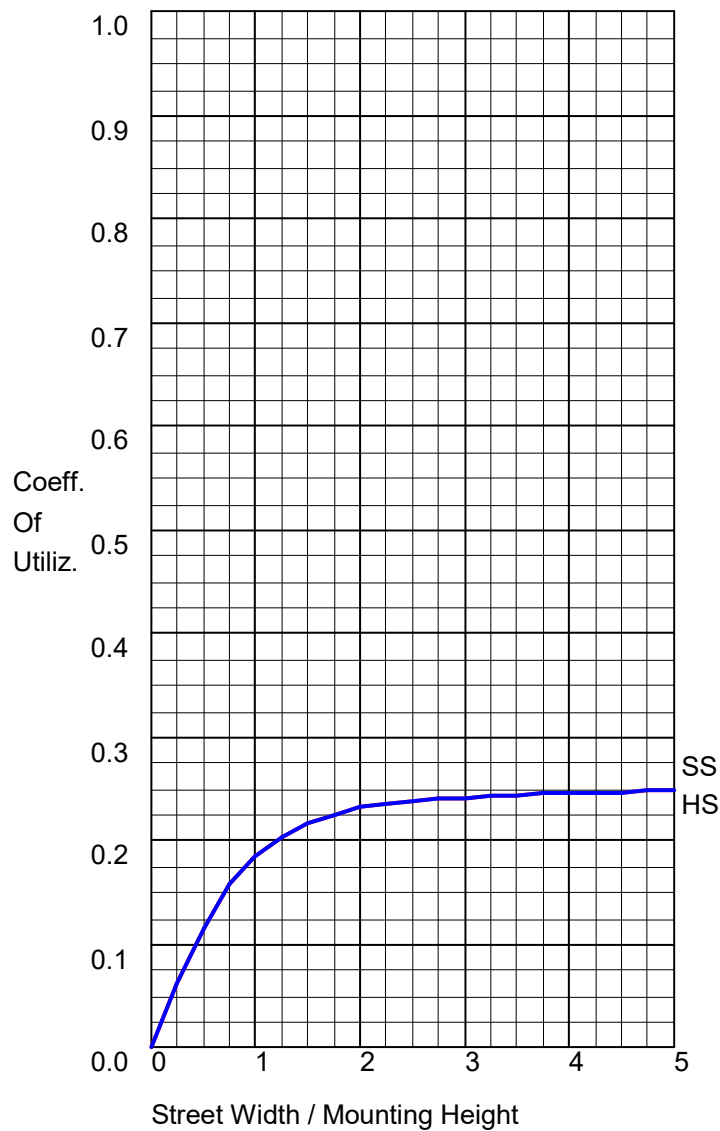
	<b>90</b>
0.0	1046
2.5	1067
5.0	1068
7.5	1067
10.0	1065
12.5	1063
15.0	1058
17.5	1053
20.0	1046
22.5	1037
25.0	1027
27.5	1014
30.0	999
32.5	979
35.0	955
37.5	929
40.0	899
42.5	868
45.0	833
47.5	797
50.0	757
52.5	712
55.0	665
57.5	615
60.0	560
62.5	502
65.0	442
67.5	382
70.0	316
72.5	253
75.0	193
77.5	138

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	<b>88</b>
<b>82.5</b>	<b>50</b>
<b>85.0</b>	<b>24</b>
<b>87.5</b>	<b>10</b>
<b>90.0</b>	<b>6</b>
<b>92.5</b>	<b>9</b>
<b>95.0</b>	<b>24</b>
<b>97.5</b>	<b>50</b>
<b>100.0</b>	<b>88</b>
<b>102.5</b>	<b>138</b>
<b>105.0</b>	<b>194</b>
<b>107.5</b>	<b>256</b>
<b>110.0</b>	<b>323</b>
<b>112.5</b>	<b>396</b>
<b>115.0</b>	<b>462</b>
<b>117.5</b>	<b>524</b>
<b>120.0</b>	<b>580</b>
<b>122.5</b>	<b>637</b>
<b>125.0</b>	<b>688</b>
<b>127.5</b>	<b>735</b>
<b>130.0</b>	<b>784</b>
<b>132.5</b>	<b>824</b>
<b>135.0</b>	<b>865</b>
<b>137.5</b>	<b>901</b>
<b>140.0</b>	<b>931</b>
<b>142.5</b>	<b>960</b>
<b>145.0</b>	<b>985</b>
<b>147.5</b>	<b>1008</b>
<b>150.0</b>	<b>1028</b>
<b>152.5</b>	<b>1047</b>
<b>155.0</b>	<b>1060</b>
<b>157.5</b>	<b>1072</b>
<b>160.0</b>	<b>1082</b>
<b>162.5</b>	<b>1089</b>
<b>165.0</b>	<b>1095</b>
<b>167.5</b>	<b>1101</b>
<b>170.0</b>	<b>1103</b>
<b>172.5</b>	<b>1105</b>
<b>175.0</b>	<b>1105</b>
<b>177.5</b>	<b>1104</b>
<b>180.0</b>	<b>1081</b>

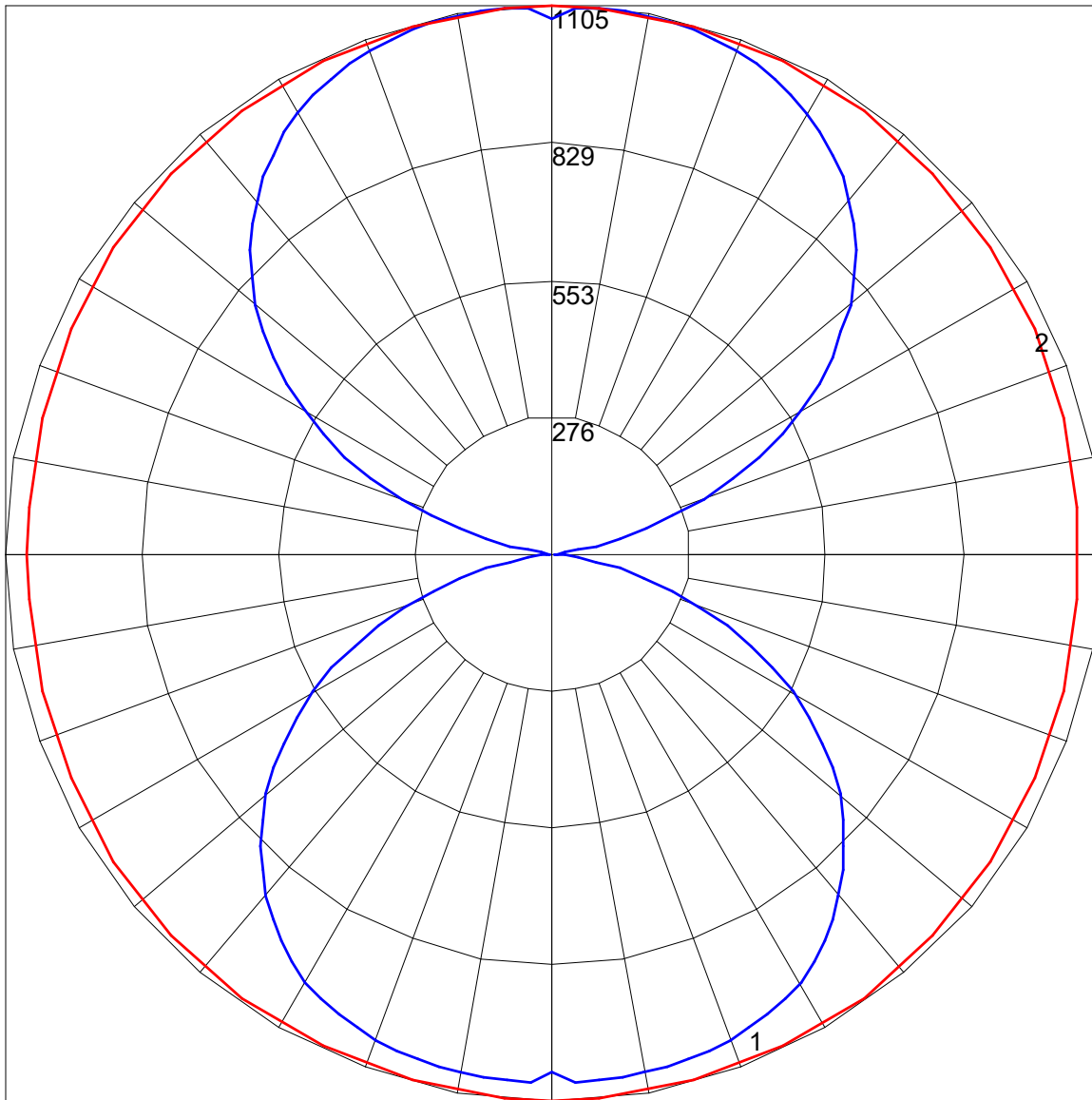
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

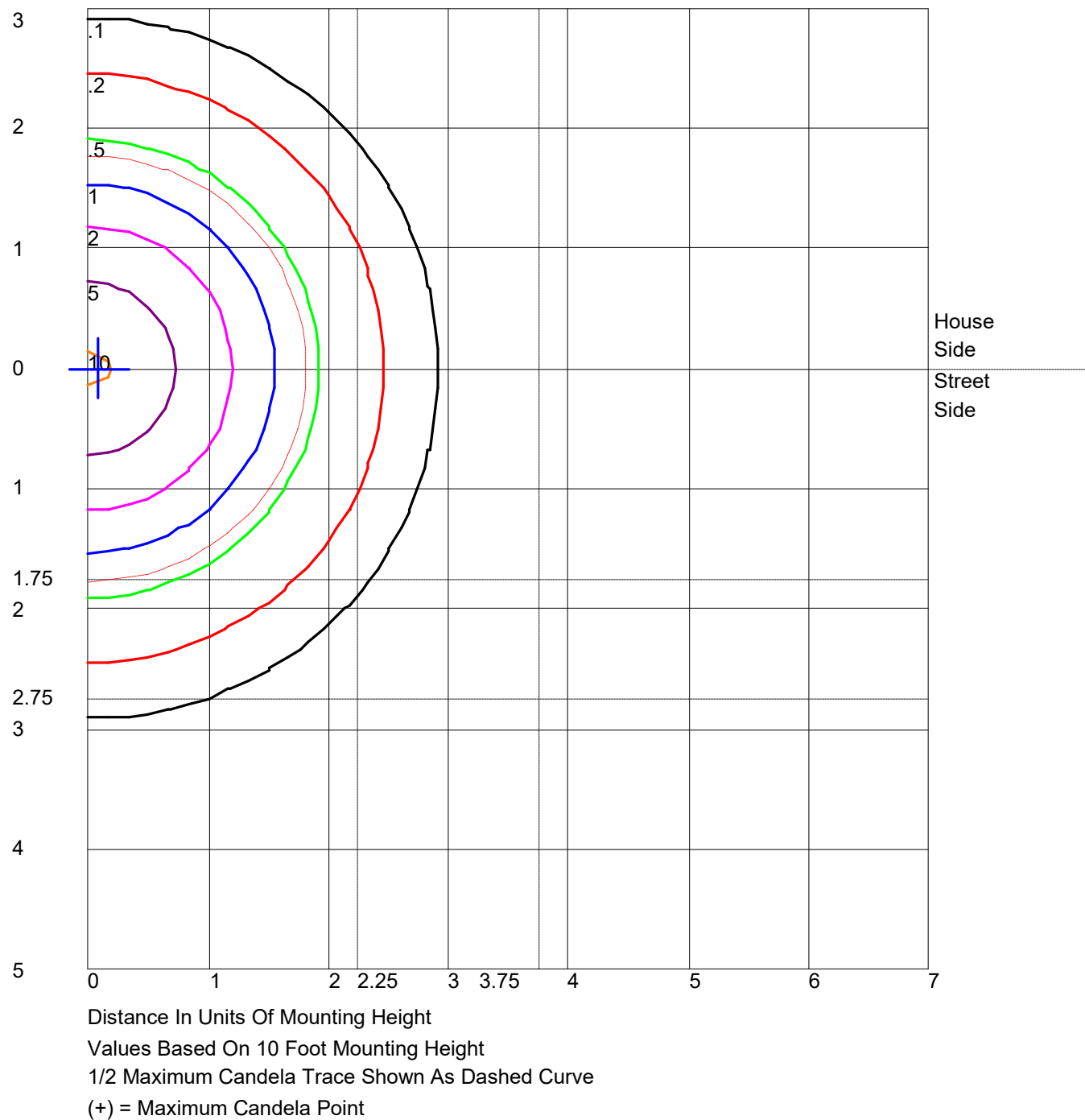
	Lumens	Percent Of Luminaire
Downward Street Side	1675.0	24.9
Downward House Side	1675.0	24.9
Downward Total	3350.0	49.8
Upward Street Side	1686.6	25.1
Upward House Side	1686.6	25.1
Upward Total	3373.2	50.2
Total Flux	6723.2	100.0

POLAR GRAPH



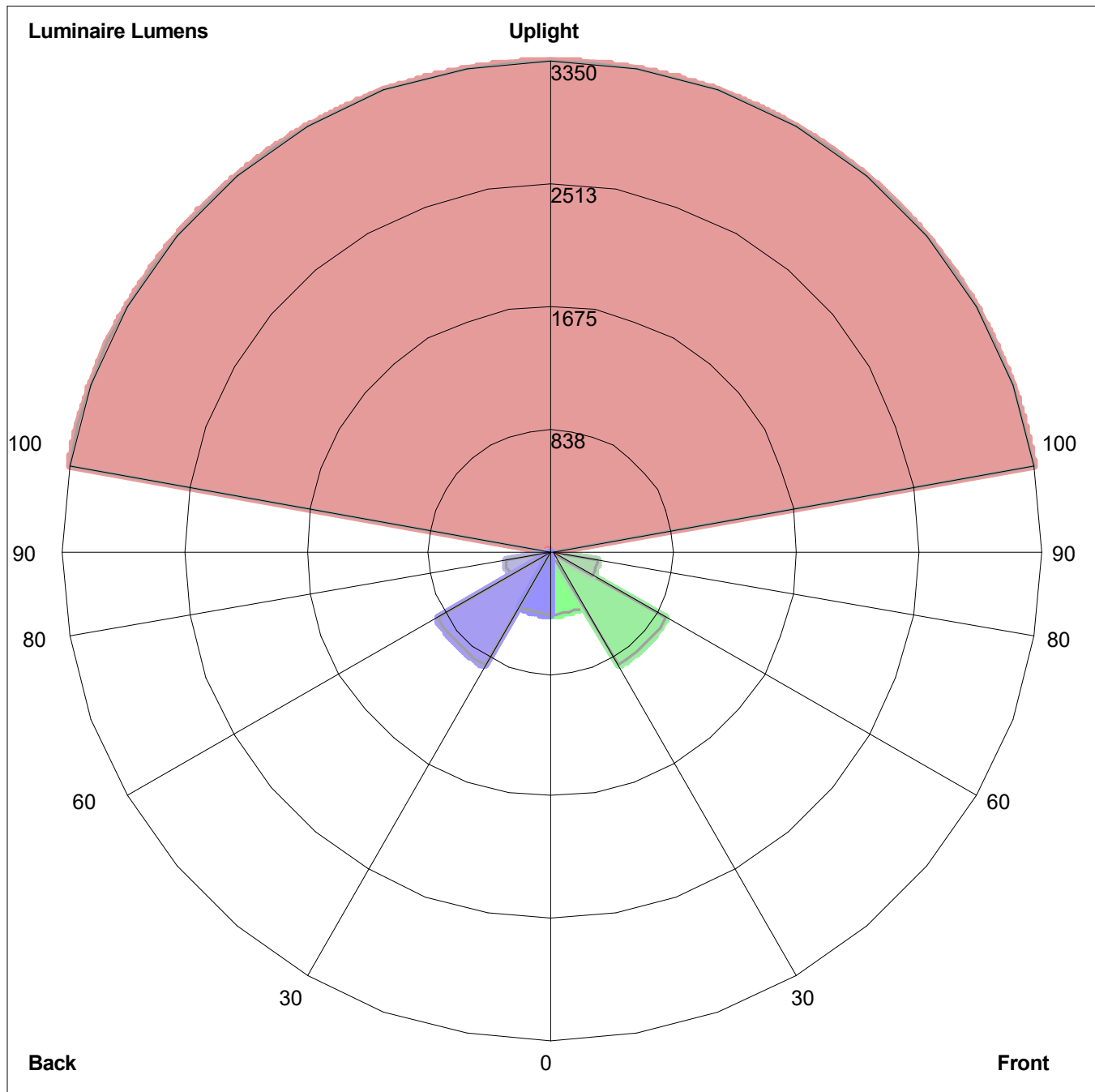
Maximum Candela = 1105 Located At Horizontal Angle = 90, Vertical Angle = 175  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=432.3, Medium=904.2, High=322.7, Very High=15.8  
Back: Low=432.3, Medium=904.2, High=322.7, Very High=15.8  
Uplight: Low=23.0, High=3350.1

BUG Rating : B1-U5-G1