



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GSR-02L-FT-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12866  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 08/26/2021  
[TEST DATE] 07/29/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] GSR-02L-FT-30  
[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] 3000

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2241
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	18
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1024
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1024
Maximum Candela Angle (<90 Degrees Vertical)	5H 27.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	102 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	391.2	N.A.	17.5
FM - Front-Medium (30-60)	866.5	N.A.	38.7
FH - Front-High (60-80)	292.6	N.A.	13.1
FVH - Front-Very High (80-90)	14.4	N.A.	0.6
BL - Back-Low (0-30)	275.8	N.A.	12.3
BM - Back-Medium (30-60)	335.9	N.A.	15.0
BH - Back-High (60-80)	61.1	N.A.	2.7
BVH - Back-Very High (80-90)	3.1	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	2240.6	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>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>	<u><b>85</b></u>
<b>0.0</b>	833	833	833	833	833	833	833	833	833	833
<b>2.5</b>	836	837	838	840	842	845	847	847	846	847
<b>5.0</b>	869	869	870	869	868	867	864	860	854	849
<b>7.5</b>	907	907	907	904	902	895	885	872	858	849
<b>10.0</b>	934	935	937	937	929	918	900	879	860	846
<b>12.5</b>	937	937	945	948	944	932	917	894	867	845
<b>15.0</b>	944	945	949	950	941	940	934	910	873	845
<b>17.5</b>	977	976	977	966	947	944	943	919	878	840
<b>20.0</b>	1001	1003	1001	987	966	946	938	920	880	833
<b>22.5</b>	1012	1013	1011	999	989	958	930	915	878	825
<b>25.0</b>	1019	1017	1014	1003	999	971	932	906	871	812
<b>27.5</b>	1023	1024	1022	1001	997	973	935	893	862	795
<b>30.0</b>	1013	1017	1016	1005	990	966	932	879	846	779
<b>32.5</b>	1007	1008	1004	995	979	955	920	866	825	758
<b>35.0</b>	1007	1007	998	982	960	937	902	849	798	731
<b>37.5</b>	1002	1005	992	973	939	914	877	827	764	700
<b>40.0</b>	983	983	973	960	923	885	849	800	732	664
<b>42.5</b>	953	952	943	932	902	859	815	765	695	630
<b>45.0</b>	920	919	906	896	876	829	782	725	656	588
<b>47.5</b>	886	883	871	855	836	795	742	684	617	546
<b>50.0</b>	849	848	833	813	790	754	699	635	574	506
<b>52.5</b>	803	804	790	771	740	706	652	589	527	460
<b>55.0</b>	751	752	740	723	688	653	599	544	479	416
<b>57.5</b>	693	695	687	669	638	595	548	492	431	372
<b>60.0</b>	633	632	628	609	582	538	494	441	384	329
<b>62.5</b>	567	566	561	544	519	481	438	391	337	284
<b>65.0</b>	498	498	492	476	456	423	384	341	292	243
<b>67.5</b>	427	428	420	409	389	363	330	292	248	204
<b>70.0</b>	357	353	351	343	325	304	276	244	205	168
<b>72.5</b>	289	284	282	277	262	244	224	196	166	134
<b>75.0</b>	216	218	218	213	204	189	170	153	130	104
<b>77.5</b>	154	157	157	154	148	139	126	112	96	78
<b>80.0</b>	98	101	102	100	98	91	85	76	64	53
<b>82.5</b>	48	48	50	54	53	52	49	45	38	31
<b>85.0</b>	9	9	11	12	16	19	21	20	17	14
<b>87.5</b>	0	0	0	0	0	0	2	3	3	3
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>	<u><b>175</b></u>
<b>0.0</b>	833	833	833	833	833	833	833	833	833	833
<b>2.5</b>	847	845	840	836	831	827	821	813	810	807
<b>5.0</b>	847	842	832	823	814	805	795	785	779	775
<b>7.5</b>	843	835	821	806	793	779	766	753	743	739
<b>10.0</b>	838	830	809	785	765	749	737	724	717	713
<b>12.5</b>	835	827	798	769	742	724	709	698	691	684
<b>15.0</b>	833	819	785	751	726	706	686	668	657	652
<b>17.5</b>	825	807	767	732	706	680	652	633	616	613
<b>20.0</b>	815	797	752	713	684	651	618	591	574	570
<b>22.5</b>	805	783	729	691	655	618	580	553	538	530
<b>25.0</b>	789	764	705	667	624	579	544	519	499	491
<b>27.5</b>	772	742	682	638	590	542	509	479	459	449

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**CANDELA TABULATION - (Cont.)**

30.0	750	720	657	608	552	507	470	439	418	409
32.5	724	690	625	574	513	468	429	400	378	366
35.0	694	659	592	534	474	426	388	359	336	324
37.5	661	624	558	495	437	386	349	317	292	280
40.0	625	586	523	456	397	347	307	275	251	240
42.5	585	548	484	417	357	309	267	233	214	203
45.0	546	509	445	377	319	271	226	197	181	173
47.5	507	466	402	338	282	232	192	168	152	146
50.0	464	425	361	300	247	198	162	141	127	119
52.5	421	384	322	262	211	166	135	116	103	97
55.0	378	343	284	226	180	138	112	94	83	78
57.5	337	303	247	196	151	115	91	76	67	63
60.0	296	263	212	167	125	93	74	62	54	50
62.5	258	228	181	140	102	75	60	49	44	41
65.0	218	194	152	116	82	61	47	39	35	33
67.5	182	162	127	95	66	49	38	31	28	27
70.0	150	132	103	76	52	38	29	25	23	23
72.5	120	105	81	58	40	29	23	20	19	18
75.0	93	81	63	43	29	22	17	15	15	15
77.5	68	60	45	30	21	15	12	11	11	11
80.0	46	41	30	20	13	9	9	9	9	9
82.5	28	24	17	11	8	6	5	5	5	5
85.0	12	11	8	5	3	2	2	2	3	3
87.5	3	2	2	1	1	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

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

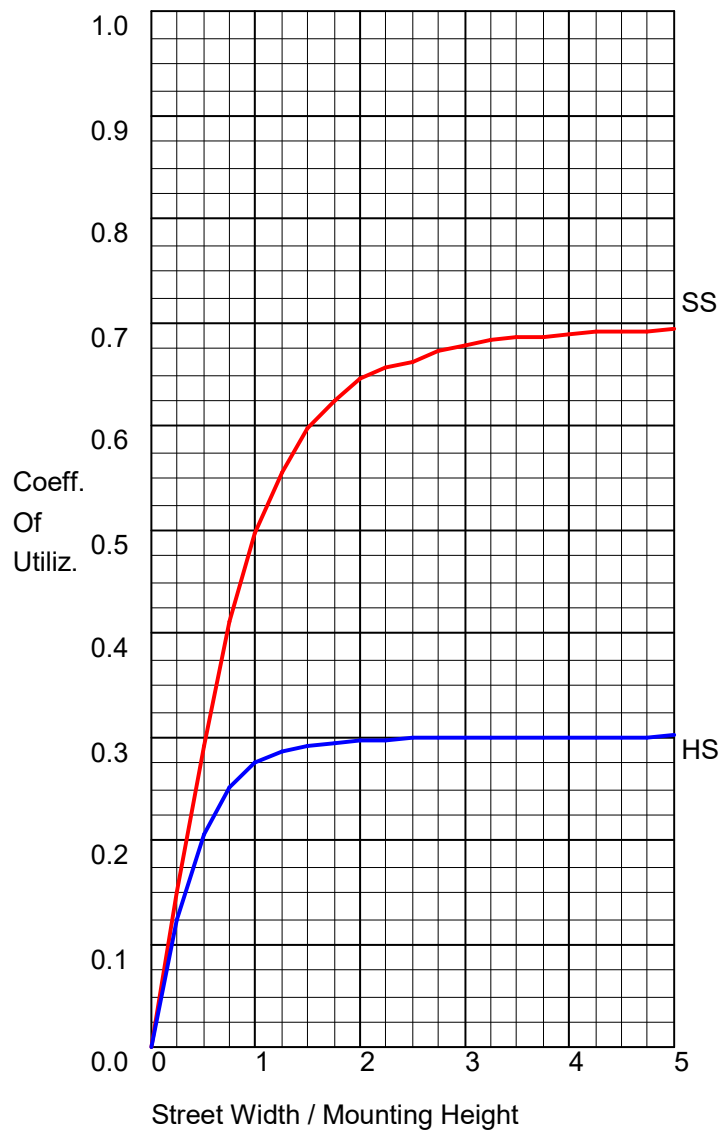
	<b>180</b>
0.0	833
2.5	807
5.0	774
7.5	738
10.0	712
12.5	683
15.0	651
17.5	613
20.0	568
22.5	533
25.0	493
27.5	448
30.0	408
32.5	365
35.0	323
37.5	278
40.0	239
42.5	203
45.0	172
47.5	145
50.0	119
52.5	97
55.0	76
57.5	62
60.0	49
62.5	41
65.0	33

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>27</b>
<b>70.0</b>	<b>23</b>
<b>72.5</b>	<b>18</b>
<b>75.0</b>	<b>14</b>
<b>77.5</b>	<b>11</b>
<b>80.0</b>	<b>9</b>
<b>82.5</b>	<b>6</b>
<b>85.0</b>	<b>3</b>
<b>87.5</b>	<b>0</b>
<b>90.0</b>	<b>0</b>

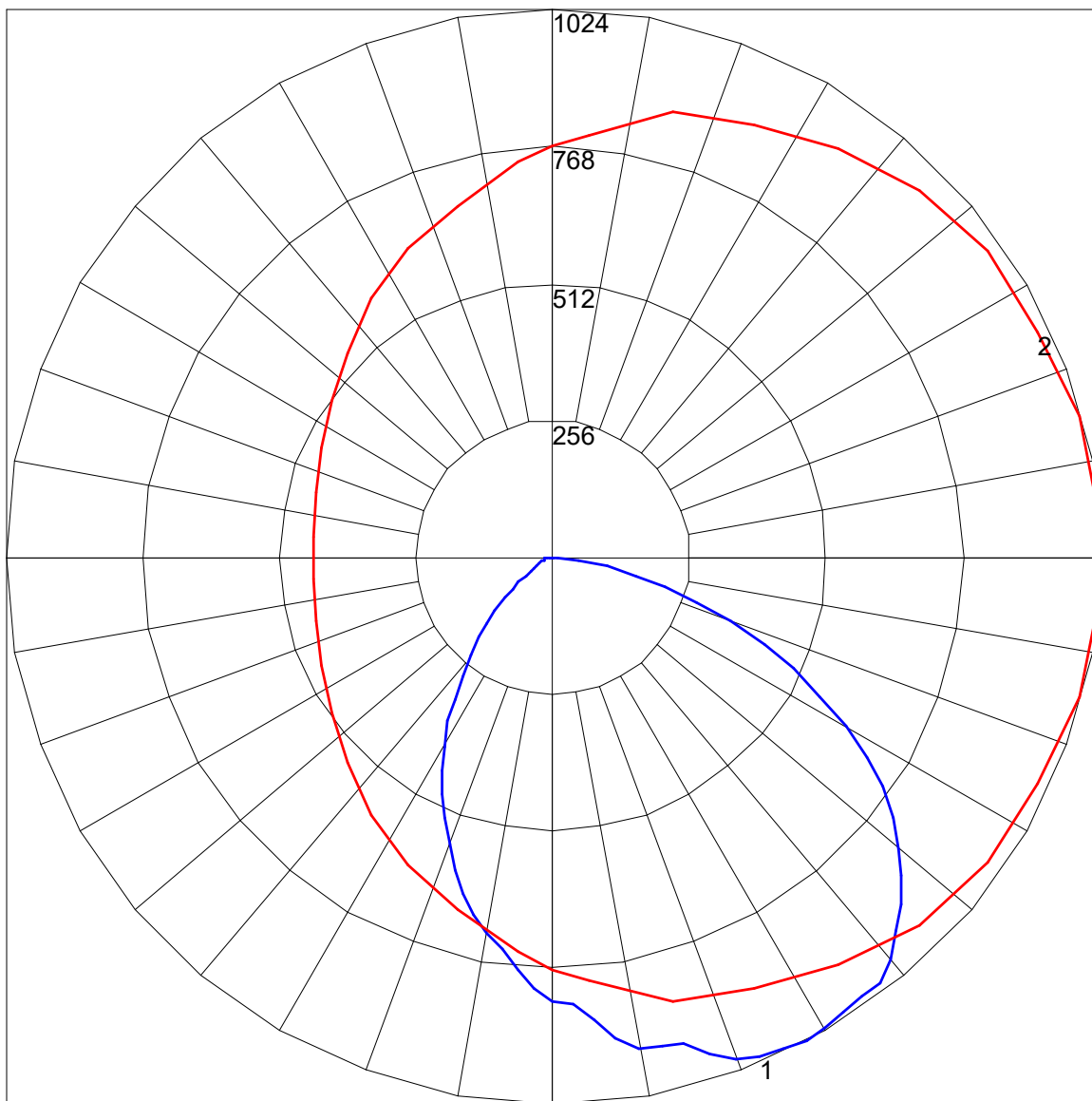
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

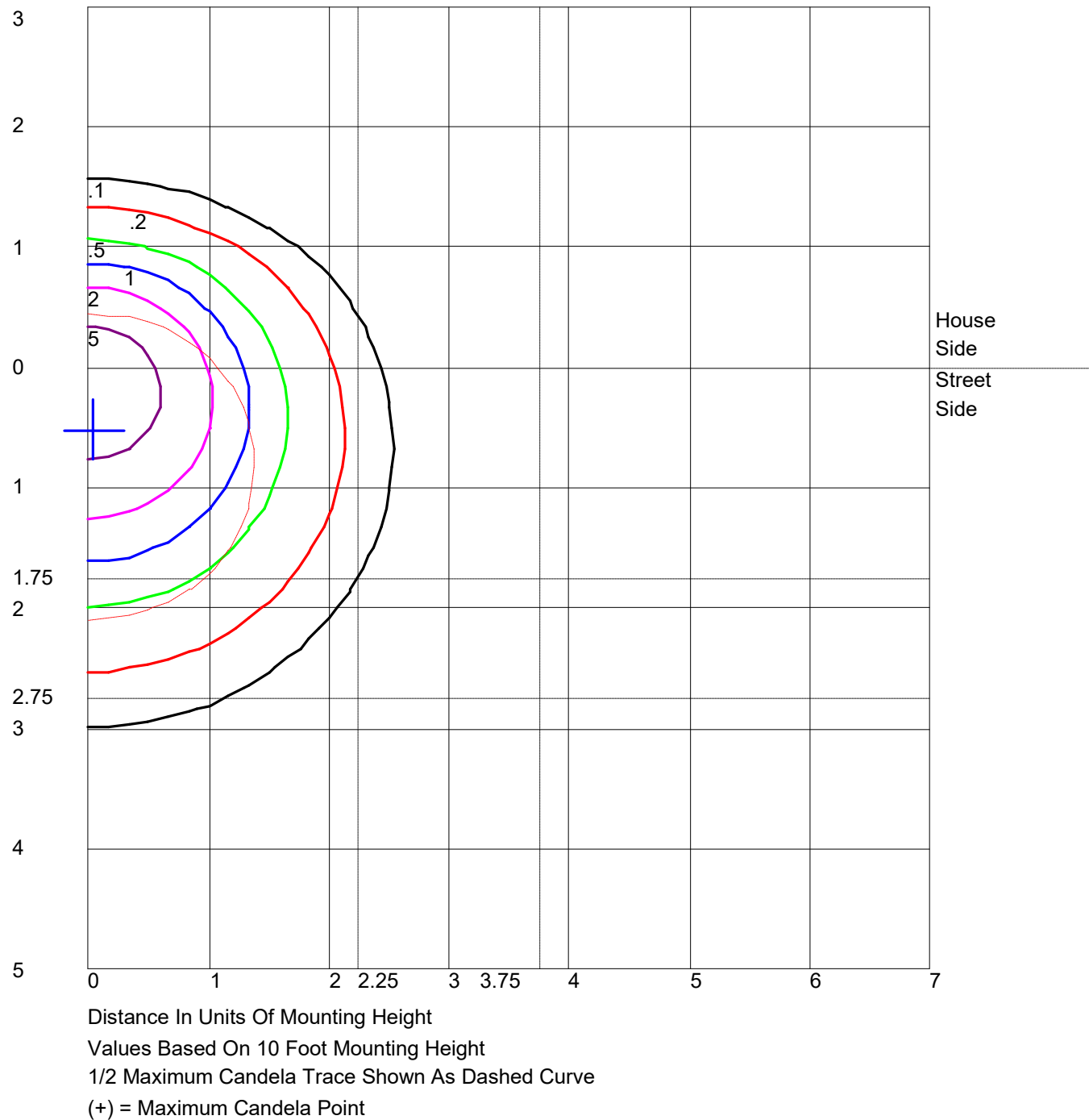
	Lumens	Percent Of Luminaire
Downward Street Side	1564.7	69.8
Downward House Side	676.0	30.2
Downward Total	2240.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2240.7	100.0

POLAR GRAPH



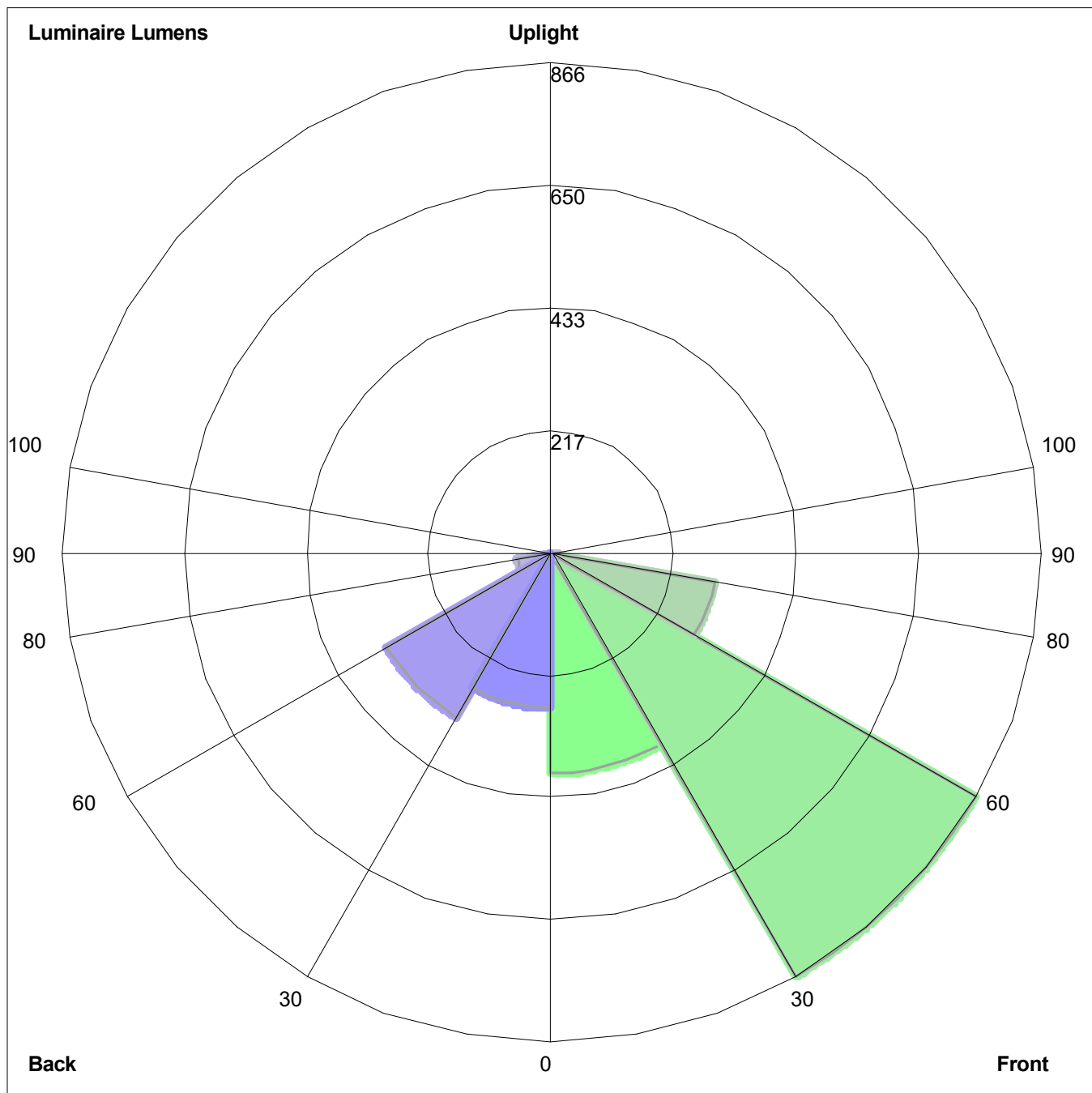
Maximum Candela = 1024 Located At Horizontal Angle = 5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=391.2, Medium=866.5, High=292.6, Very High=14.4  
Back: Low=275.8, Medium=335.9, High=61.1, Very High=3.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1