



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12865
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 08/26/2021
[TEST DATE] 07/29/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] GST-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	2205
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	18
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1043
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1043
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	80 (3.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	395.9	N.A.	18.0
FM - Front-Medium (30-60)	865.2	N.A.	39.2
FH - Front-High (60-80)	273.5	N.A.	12.4
FVH - Front-Very High (80-90)	11.1	N.A.	0.5
BL - Back-Low (0-30)	278.0	N.A.	12.6
BM - Back-Medium (30-60)	321.2	N.A.	14.6
BH - Back-High (60-80)	56.5	N.A.	2.6
BVH - Back-Very High (80-90)	3.3	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	2204.7	N.A.	100.0
BUG Rating	B1-U0-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>
0.0	850	850	850	850	850	850	850	850	850	850
2.5	854	854	856	858	861	863	865	867	867	865
5.0	877	877	877	878	878	878	876	874	869	864
7.5	906	906	905	902	901	894	886	882	874	865
10.0	938	938	936	932	927	913	900	889	879	865
12.5	949	948	949	948	941	931	914	898	883	865
15.0	972	971	965	957	950	941	927	908	885	862
17.5	1001	1001	996	984	967	949	937	918	887	858
20.0	1015	1018	1018	1005	990	964	941	924	886	850
22.5	1022	1023	1022	1012	1005	981	942	923	881	836
25.0	1036	1035	1029	1014	1007	992	950	913	869	821
27.5	1040	1043	1034	1024	1008	994	953	901	856	807
30.0	1034	1039	1033	1030	1007	982	941	884	847	792
32.5	1026	1026	1027	1019	994	968	926	872	826	761
35.0	1010	1015	1013	998	979	956	905	859	799	732
37.5	993	1000	993	977	960	934	882	835	767	703
40.0	971	978	967	956	936	902	858	805	734	669
42.5	942	948	937	924	904	869	830	769	700	633
45.0	910	913	902	891	869	832	791	730	661	593
47.5	873	874	865	852	829	793	749	691	621	550
50.0	827	831	823	808	784	747	704	648	577	507
52.5	776	777	771	760	735	694	650	597	533	462
55.0	713	719	713	704	681	644	597	548	486	418
57.5	652	656	652	643	622	585	541	494	438	373
60.0	589	589	589	580	560	525	487	441	387	328
62.5	522	521	520	514	491	464	430	389	340	287
65.0	453	453	452	441	426	402	372	337	294	246
67.5	383	384	381	374	358	341	316	287	250	206
70.0	314	313	313	308	295	279	262	238	207	171
72.5	248	246	247	243	235	223	210	188	166	137
75.0	179	183	185	184	178	170	156	145	128	107
77.5	122	126	127	129	126	119	112	104	95	80
80.0	70	70	75	79	80	77	73	68	63	54
82.5	27	27	29	35	38	41	40	39	37	32
85.0	2	2	3	5	9	13	15	16	16	14
87.5	0	0	0	0	0	0	1	2	3	3
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<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>	<u>175</u>
0.0	850	850	850	850	850	850	850	850	850	850
2.5	865	863	859	853	848	842	835	829	823	820
5.0	861	857	849	839	831	821	811	801	792	791
7.5	859	851	837	821	806	791	779	767	758	756
10.0	858	847	824	801	779	759	742	730	723	721
12.5	853	841	814	784	758	732	713	698	688	683
15.0	851	837	807	770	737	706	678	660	652	651
17.5	845	830	795	751	717	679	650	626	616	613
20.0	833	813	773	726	691	654	621	590	574	570
22.5	816	794	744	700	657	622	587	555	533	528
25.0	802	779	723	675	626	583	548	517	490	481
27.5	787	760	695	642	592	545	506	471	441	432

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CANDELA TABULATION - (Cont.)

30.0	763	732	665	604	553	507	462	424	399	387
32.5	734	705	634	571	514	464	417	380	354	339
35.0	705	671	599	533	473	418	374	337	307	291
37.5	674	634	562	494	432	374	331	292	262	245
40.0	635	597	521	456	391	333	286	247	218	203
42.5	598	558	481	412	346	291	241	205	181	169
45.0	556	519	441	370	307	251	204	170	152	140
47.5	514	474	401	331	267	210	169	141	124	116
50.0	471	432	361	293	231	176	140	117	101	93
52.5	428	388	319	254	195	147	116	96	82	75
55.0	384	348	281	218	163	121	95	78	66	61
57.5	342	308	242	186	134	99	77	63	53	48
60.0	302	266	209	156	111	80	62	50	42	39
62.5	259	230	178	130	90	64	49	40	34	31
65.0	221	196	149	106	73	52	39	32	27	26
67.5	186	165	123	86	58	42	31	26	23	21
70.0	153	134	100	68	45	32	25	20	18	17
72.5	123	108	79	53	35	26	19	16	15	14
75.0	97	84	61	39	27	19	14	12	11	11
77.5	71	63	44	27	19	14	10	9	9	9
80.0	49	43	29	18	12	9	8	7	7	7
82.5	30	27	18	10	8	6	5	5	5	5
85.0	13	13	9	5	3	3	2	2	3	3
87.5	3	3	2	1	1	1	1	1	1	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

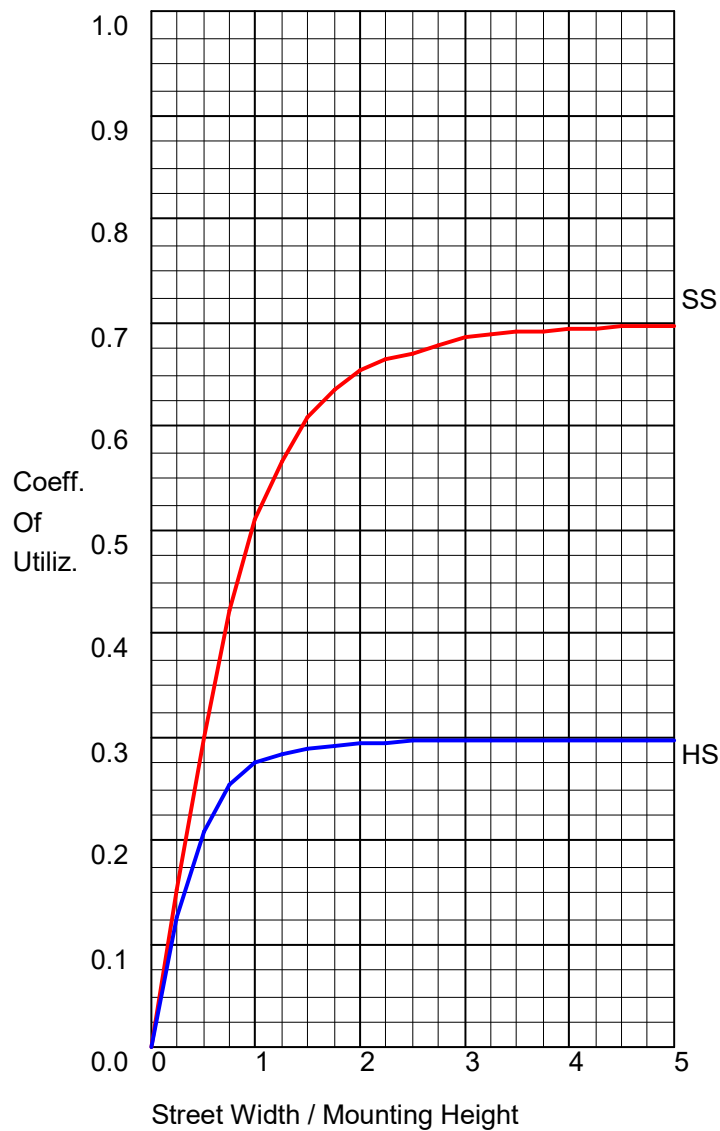
	180
0.0	850
2.5	819
5.0	791
7.5	756
10.0	721
12.5	683
15.0	651
17.5	612
20.0	568
22.5	529
25.0	483
27.5	434
30.0	384
32.5	339
35.0	292
37.5	246
40.0	203
42.5	168
45.0	139
47.5	115
50.0	93
52.5	75
55.0	59
57.5	46
60.0	38
62.5	31
65.0	26

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CANDELA TABULATION - (Cont.)

67.5	21
70.0	17
72.5	14
75.0	11
77.5	9
80.0	7
82.5	5
85.0	3
87.5	1
90.0	0

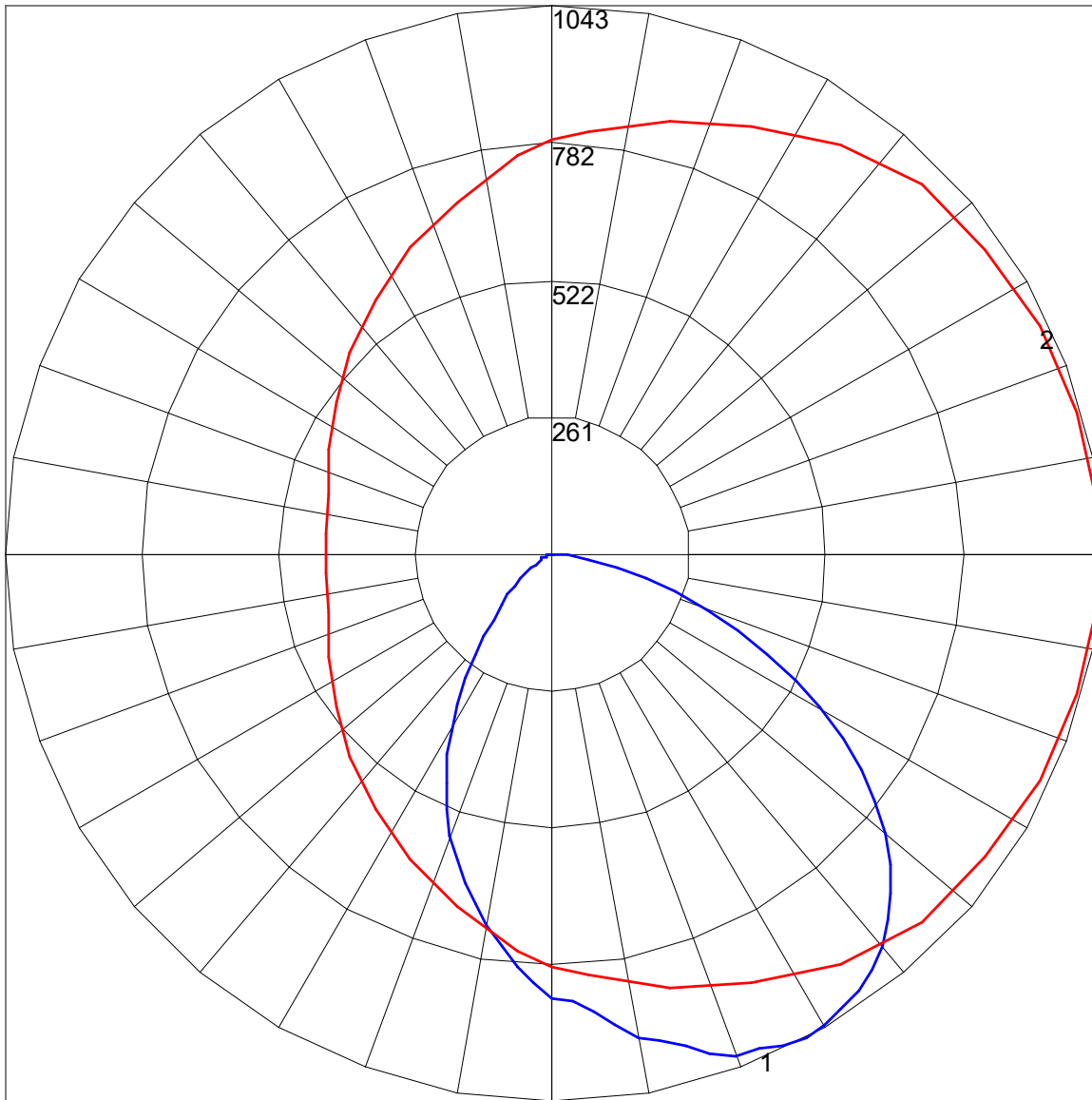
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

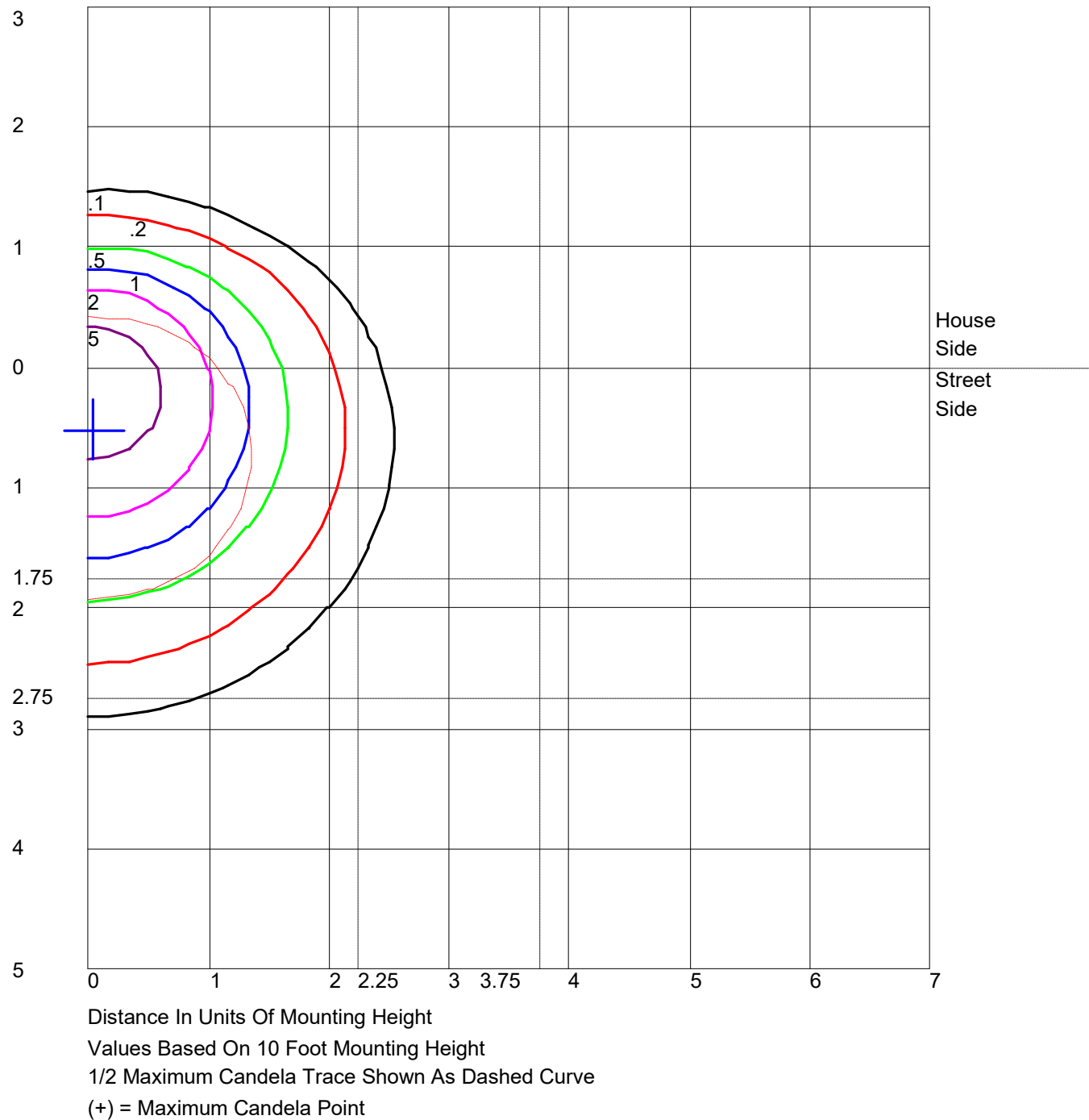
	Lumens	Percent Of Luminaire
Downward Street Side	1545.8	70.1
Downward House Side	658.9	29.9
Downward Total	2204.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2204.7	100.0

POLAR GRAPH

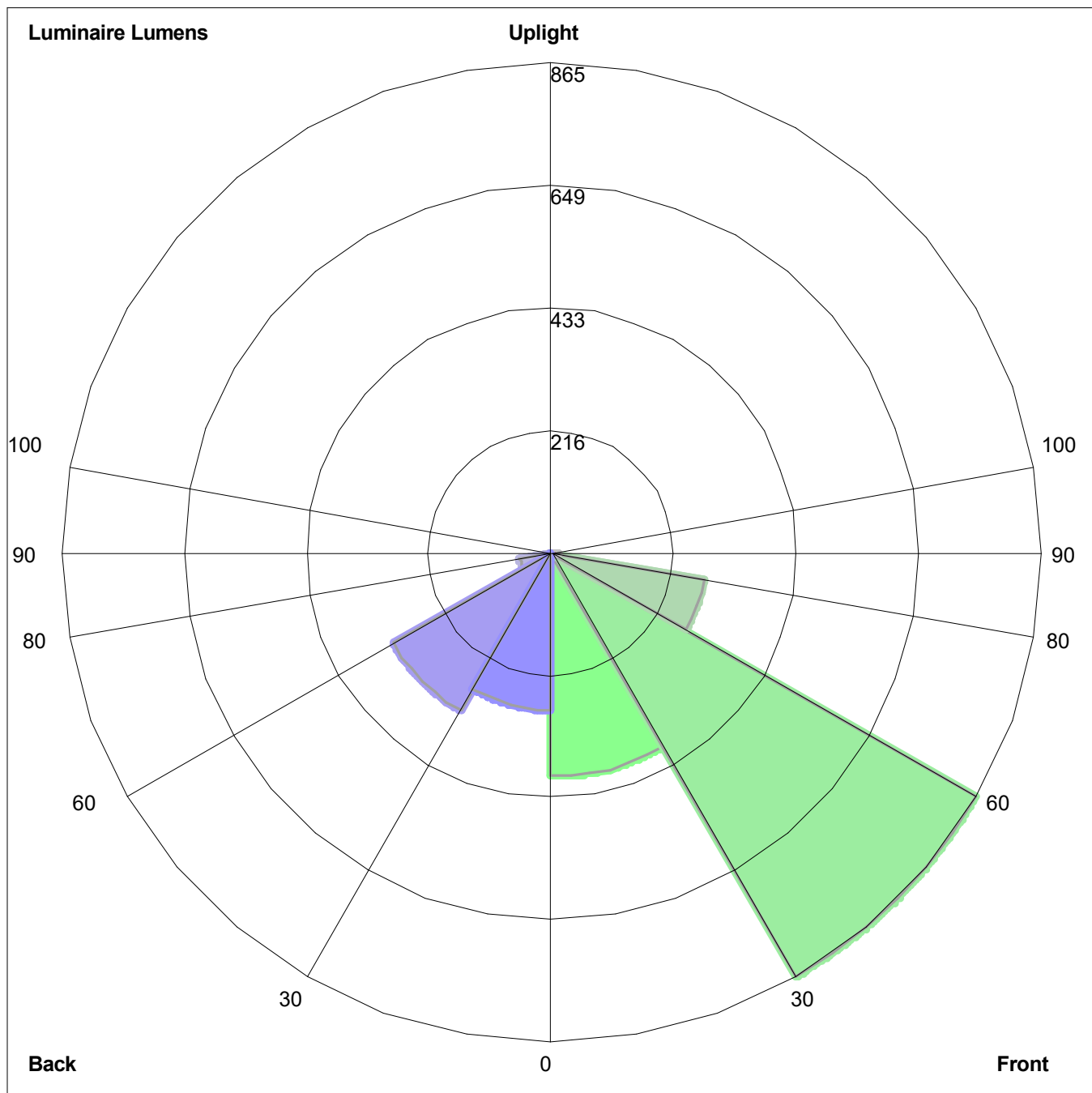


Maximum Candela = 1043 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=395.9, Medium=865.2, High=273.5, Very High=11.1
Back: Low=278.0, Medium=321.2, High=56.5, Very High=3.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1