



IES ROAD REPORT
PHOTOMETRIC FILENAME : GST-02L-FT-40.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-40
[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] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2328
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	18
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1101
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1101
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	84 (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)	418.0	N.A.	18.0
FM - Front-Medium (30-60)	913.7	N.A.	39.2
FH - Front-High (60-80)	288.8	N.A.	12.4
FVH - Front-Very High (80-90)	11.7	N.A.	0.5
BL - Back-Low (0-30)	293.5	N.A.	12.6
BM - Back-Medium (30-60)	339.1	N.A.	14.6
BH - Back-High (60-80)	59.7	N.A.	2.6
BVH - Back-Very High (80-90)	3.4	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	2327.9	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	898	898	898	898	898	898	898	898	898	898
2.5	902	902	904	906	909	911	913	915	915	913
5.0	926	926	926	927	927	927	925	923	918	912
7.5	957	957	956	953	951	944	936	931	923	913
10.0	990	990	988	984	979	964	950	939	928	913
12.5	1002	1001	1002	1001	994	983	965	948	932	913
15.0	1026	1025	1019	1011	1003	994	979	959	935	910
17.5	1057	1057	1052	1039	1021	1002	989	969	937	906
20.0	1072	1075	1075	1061	1045	1018	994	976	936	898
22.5	1079	1080	1079	1069	1061	1036	995	975	930	883
25.0	1094	1093	1087	1071	1063	1047	1003	964	918	867
27.5	1098	1101	1092	1081	1064	1050	1006	951	904	852
30.0	1092	1097	1091	1088	1063	1037	994	933	894	836
32.5	1083	1083	1085	1076	1050	1022	978	921	872	804
35.0	1067	1072	1070	1054	1034	1009	956	907	844	773
37.5	1049	1056	1049	1032	1014	986	931	882	810	742
40.0	1025	1033	1021	1009	988	952	906	850	775	706
42.5	995	1001	989	976	955	918	876	812	739	668
45.0	961	964	953	941	918	879	835	771	698	626
47.5	922	923	913	900	875	837	791	730	656	581
50.0	873	878	869	853	828	789	743	684	609	535
52.5	819	821	814	803	776	733	686	630	563	488
55.0	753	759	753	743	719	680	630	579	513	441
57.5	689	693	689	679	657	618	571	522	462	394
60.0	622	622	622	612	591	554	514	466	409	346
62.5	551	550	549	543	519	490	454	411	359	303
65.0	478	478	477	466	450	425	393	356	310	260
67.5	404	405	402	395	378	360	334	303	264	218
70.0	332	330	330	325	312	295	277	251	219	181
72.5	262	260	261	257	248	235	222	199	175	145
75.0	189	193	195	194	188	179	165	153	135	113
77.5	129	133	134	136	133	126	118	110	100	84
80.0	74	74	79	83	84	81	77	72	66	57
82.5	29	29	31	37	40	43	42	41	39	34
85.0	2	2	3	5	9	14	16	17	17	15
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	898	898	898	898	898	898	898	898	898	898
2.5	913	911	907	901	895	889	882	875	869	866
5.0	909	905	897	886	877	867	856	846	836	835
7.5	907	899	884	867	851	835	823	810	800	798
10.0	906	894	870	846	823	802	784	771	763	761
12.5	901	888	860	828	800	773	753	737	727	721
15.0	899	884	852	813	778	746	716	697	689	687
17.5	892	876	840	793	757	717	686	661	650	647
20.0	880	859	816	767	730	691	656	623	606	602
22.5	862	838	786	739	694	657	620	586	563	558
25.0	847	823	763	713	661	616	579	546	517	508
27.5	831	803	734	678	625	576	534	497	466	456

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CANDELA TABULATION - (Cont.)

30.0	806	773	702	638	584	535	488	448	421	409
32.5	775	744	669	603	543	490	440	401	374	358
35.0	744	709	633	563	499	441	395	356	324	307
37.5	712	669	593	522	456	395	349	308	277	259
40.0	671	630	550	481	413	352	302	261	230	214
42.5	631	589	508	435	365	307	255	216	191	178
45.0	587	548	466	391	324	265	215	180	160	148
47.5	543	501	423	350	282	222	178	149	131	122
50.0	497	456	381	309	244	186	148	124	107	98
52.5	452	410	337	268	206	155	122	101	87	79
55.0	406	368	297	230	172	128	100	82	70	64
57.5	361	325	256	196	142	105	81	66	56	51
60.0	319	281	221	165	117	85	65	53	44	41
62.5	274	243	188	137	95	68	52	42	36	33
65.0	233	207	157	112	77	55	41	34	29	27
67.5	196	174	130	91	61	44	33	27	24	22
70.0	162	142	106	72	48	34	26	21	19	18
72.5	130	114	83	56	37	27	20	17	16	15
75.0	102	89	64	41	28	20	15	13	12	12
77.5	75	66	46	29	20	15	11	10	10	10
80.0	52	45	31	19	13	10	8	7	7	7
82.5	32	28	19	11	8	6	5	5	5	5
85.0	14	14	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

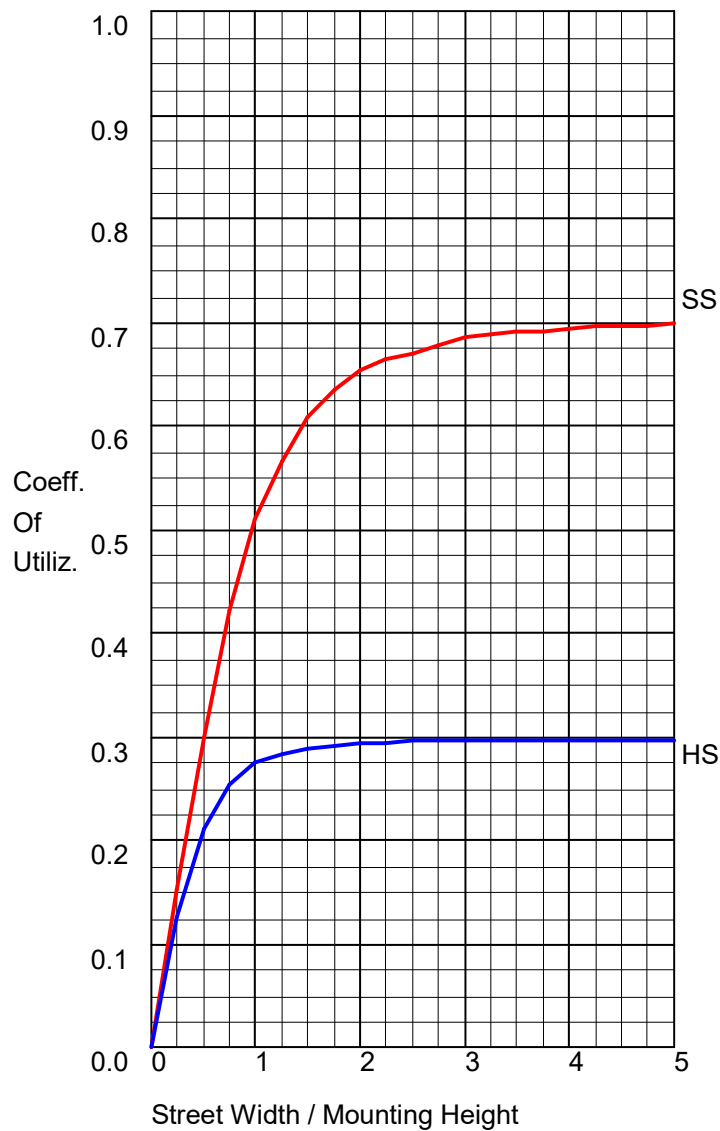
	180
0.0	898
2.5	865
5.0	835
7.5	798
10.0	761
12.5	721
15.0	687
17.5	646
20.0	600
22.5	559
25.0	510
27.5	458
30.0	406
32.5	358
35.0	308
37.5	260
40.0	214
42.5	177
45.0	147
47.5	121
50.0	98
52.5	79
55.0	62
57.5	49
60.0	40
62.5	33
65.0	27

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CANDELA TABULATION - (Cont.)

67.5	22
70.0	18
72.5	15
75.0	12
77.5	10
80.0	7
82.5	5
85.0	3
87.5	1
90.0	0

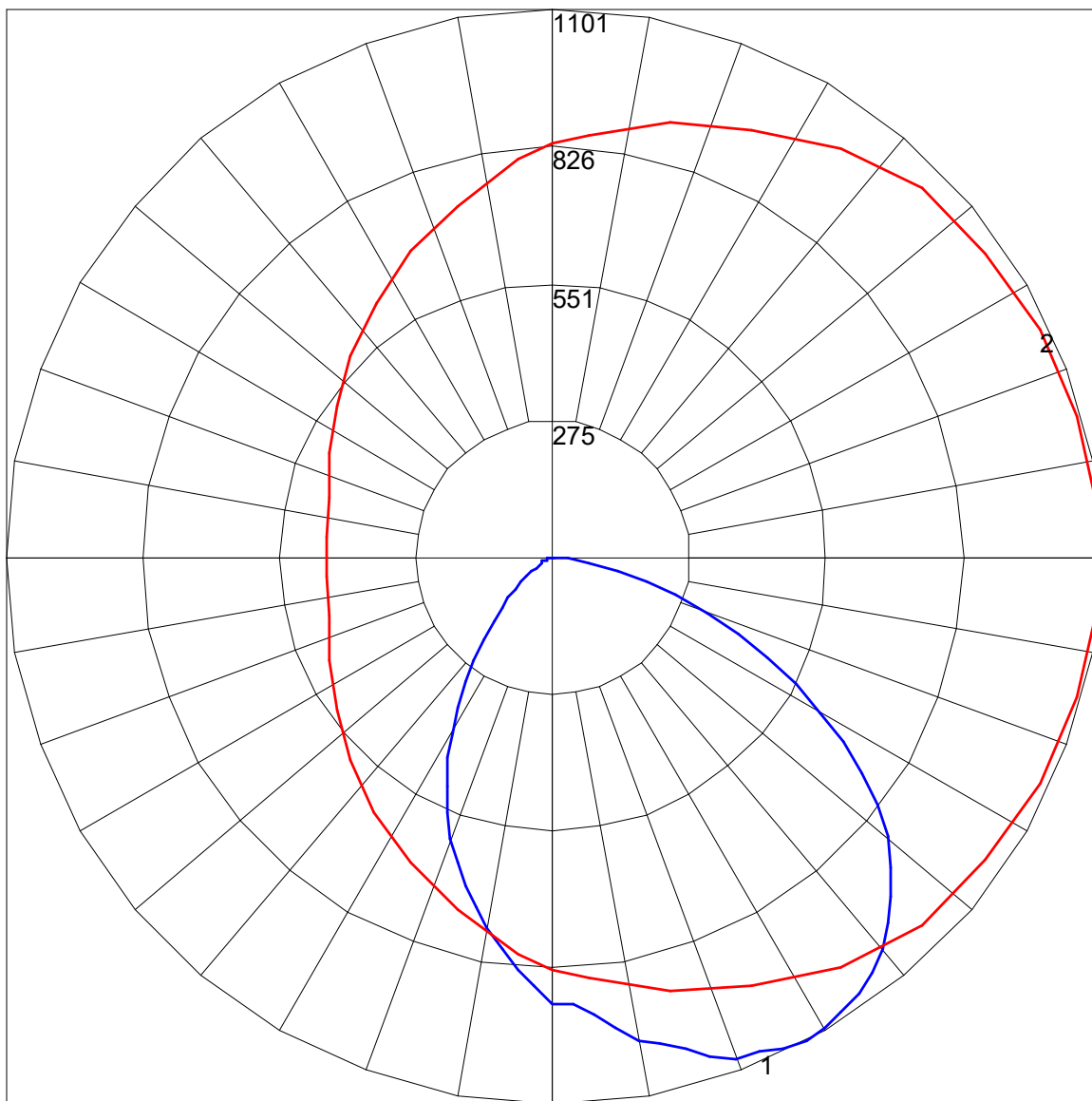
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

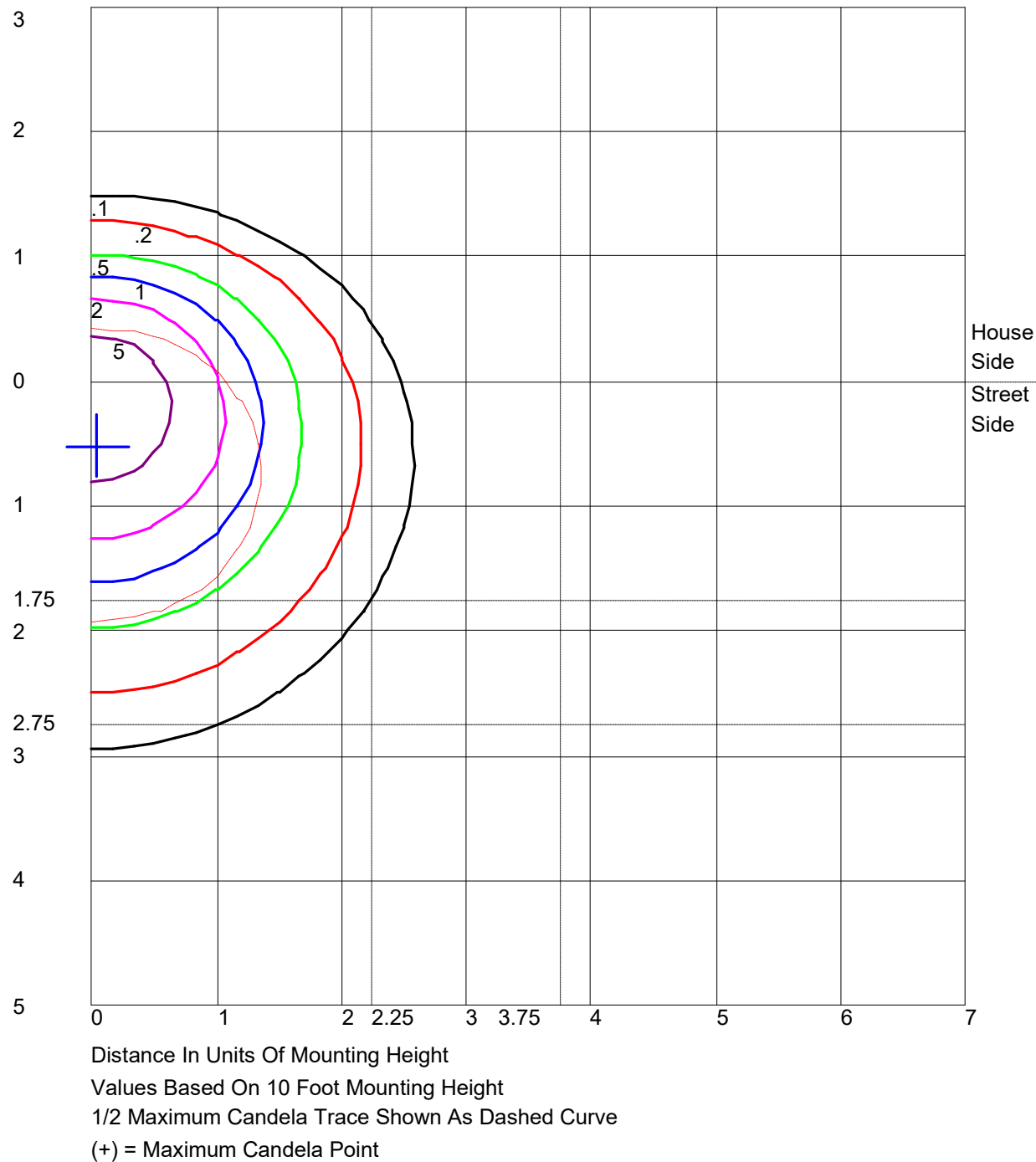
	Lumens	Percent Of Luminaire
Downward Street Side	1632.2	70.1
Downward House Side	695.7	29.9
Downward Total	2327.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2327.9	100.0

POLAR GRAPH

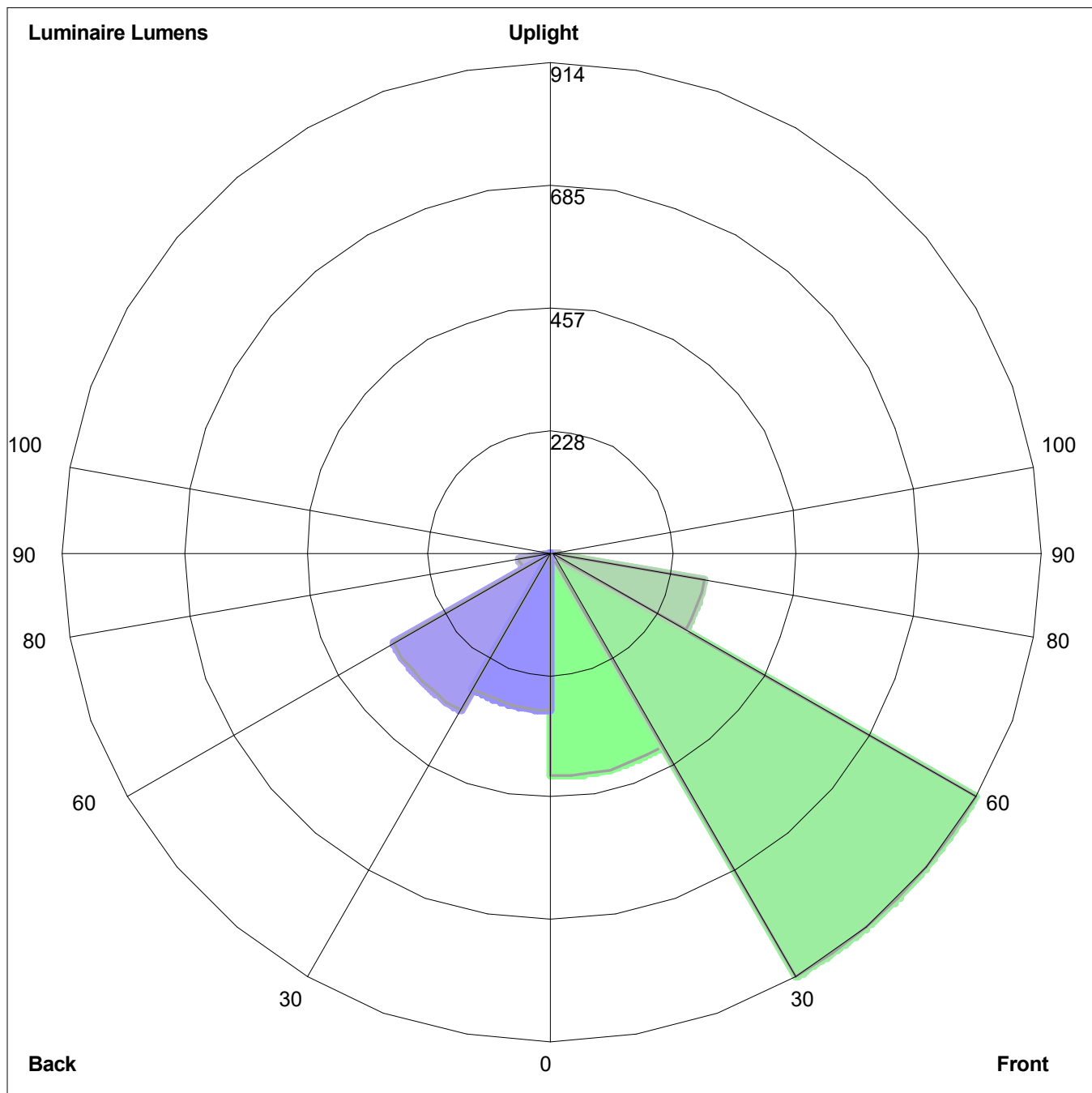


Maximum Candela = 1101 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=418.0, Medium=913.7, High=288.8, Very High=11.7
Back: Low=293.5, Medium=339.1, High=59.7, Very High=3.4
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1