



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSR-02L-FT-40.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-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	2366
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	18
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1081
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1081
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	108 (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)	413.1	N.A.	17.5
FM - Front-Medium (30-60)	914.9	N.A.	38.7
FH - Front-High (60-80)	309.0	N.A.	13.1
FVH - Front-Very High (80-90)	15.2	N.A.	0.6
BL - Back-Low (0-30)	291.3	N.A.	12.3
BM - Back-Medium (30-60)	354.7	N.A.	15.0
BH - Back-High (60-80)	64.6	N.A.	2.7
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	2366.1	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	880	880	880	880	880	880	880	880	880	880
2.5	883	884	885	887	889	892	894	894	893	894
5.0	918	918	919	918	917	916	912	908	902	897
7.5	958	958	958	955	952	945	935	921	906	896
10.0	986	987	989	989	981	969	950	928	908	893
12.5	989	989	998	1001	997	984	968	944	915	892
15.0	997	998	1002	1003	994	993	986	961	922	892
17.5	1032	1031	1032	1020	1000	997	996	970	927	887
20.0	1057	1059	1057	1042	1020	999	991	972	929	880
22.5	1069	1070	1068	1055	1044	1012	982	966	927	871
25.0	1076	1074	1071	1059	1055	1025	984	957	920	857
27.5	1080	1081	1079	1057	1053	1027	987	943	910	840
30.0	1070	1074	1073	1061	1045	1020	984	928	893	823
32.5	1063	1064	1060	1051	1034	1008	971	914	871	800
35.0	1063	1063	1054	1037	1014	989	952	896	843	772
37.5	1058	1061	1047	1027	992	965	926	873	807	739
40.0	1038	1038	1027	1014	975	935	896	845	773	701
42.5	1006	1005	996	984	952	907	861	808	734	665
45.0	971	970	957	946	925	875	826	766	693	621
47.5	936	932	920	903	883	840	783	722	652	577
50.0	897	895	880	859	834	796	738	671	606	534
52.5	848	849	834	814	781	745	689	622	556	486
55.0	793	794	781	763	727	690	632	574	506	439
57.5	732	734	725	706	674	628	579	520	455	393
60.0	668	667	663	643	615	568	522	466	405	347
62.5	599	598	592	574	548	508	463	413	356	300
65.0	526	526	520	503	481	447	405	360	308	257
67.5	451	452	444	432	411	383	348	308	262	215
70.0	377	373	371	362	343	321	291	258	216	177
72.5	305	300	298	292	277	258	237	207	175	142
75.0	228	230	230	225	215	200	180	162	137	110
77.5	163	166	166	163	156	147	133	118	101	82
80.0	104	107	108	106	103	96	90	80	68	56
82.5	51	51	53	57	56	55	52	47	40	33
85.0	10	10	12	13	17	20	22	21	18	15
87.5	0	0	0	0	0	0	2	3	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	880	880	880	880	880	880	880	880	880	880
2.5	894	892	887	883	878	873	867	859	855	852
5.0	894	889	879	869	860	850	839	829	823	818
7.5	890	882	867	851	837	823	809	795	785	780
10.0	885	876	854	829	808	791	778	764	757	753
12.5	882	873	843	812	783	765	749	737	730	722
15.0	880	865	829	793	767	746	724	705	694	688
17.5	871	852	810	773	746	718	689	668	651	647
20.0	861	842	794	753	722	687	653	624	606	602
22.5	850	827	770	730	692	653	612	584	568	560
25.0	833	807	744	704	659	611	574	548	527	519
27.5	815	784	720	674	623	572	537	506	485	474

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CANDELA TABULATION - (Cont.)

30.0	792	760	694	642	583	535	496	464	441	432
32.5	765	729	660	606	542	494	453	422	399	387
35.0	733	696	625	564	500	450	410	379	355	342
37.5	698	659	589	523	461	408	369	335	308	296
40.0	660	619	552	482	419	366	324	290	265	253
42.5	618	579	511	440	377	326	282	246	226	214
45.0	577	538	470	398	337	286	239	208	191	183
47.5	535	492	424	357	298	245	203	177	161	154
50.0	490	449	381	317	261	209	171	149	134	126
52.5	445	405	340	277	223	175	143	122	109	102
55.0	399	362	300	239	190	146	118	99	88	82
57.5	356	320	261	207	159	121	96	80	71	66
60.0	313	278	224	176	132	98	78	65	57	53
62.5	272	241	191	148	108	79	63	52	46	43
65.0	230	205	161	123	87	64	50	41	37	35
67.5	192	171	134	100	70	52	40	33	30	29
70.0	158	139	109	80	55	40	31	26	24	24
72.5	127	111	86	61	42	31	24	21	20	19
75.0	98	86	66	45	31	23	18	16	16	16
77.5	72	63	47	32	22	16	13	12	12	12
80.0	49	43	32	21	14	10	9	9	9	9
82.5	30	25	18	12	8	6	5	5	5	5
85.0	13	12	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

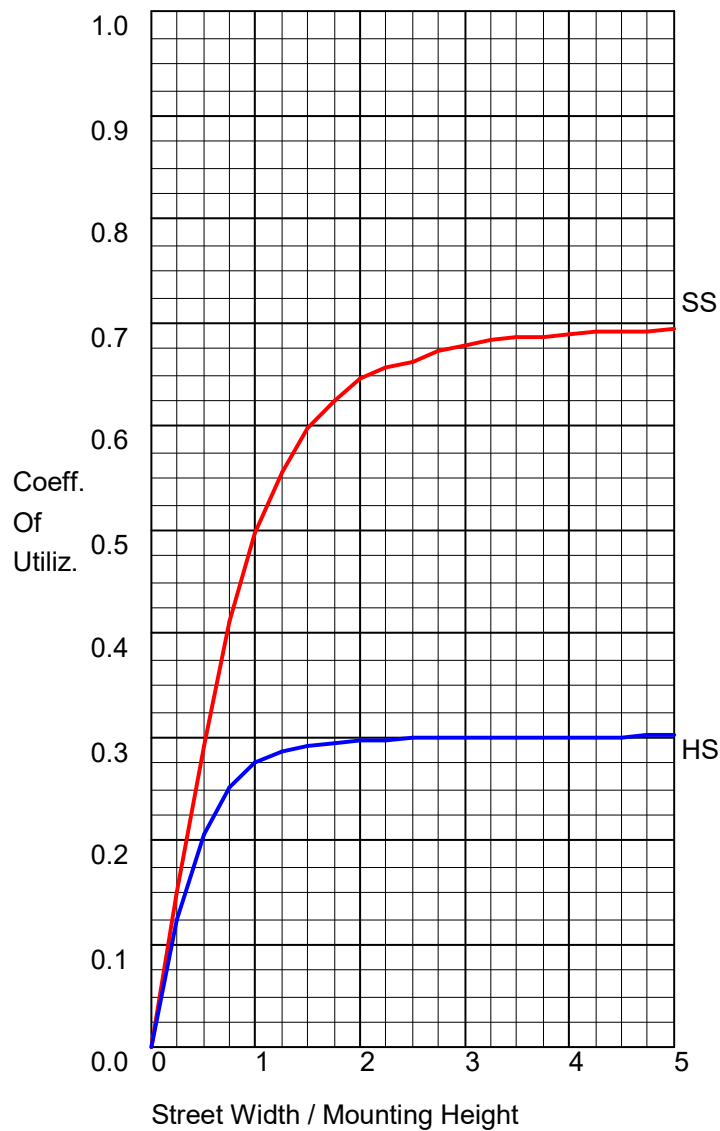
	180
0.0	880
2.5	852
5.0	817
7.5	779
10.0	752
12.5	721
15.0	687
17.5	647
20.0	600
22.5	563
25.0	521
27.5	473
30.0	431
32.5	385
35.0	341
37.5	294
40.0	252
42.5	214
45.0	182
47.5	153
50.0	126
52.5	102
55.0	80
57.5	65
60.0	52
62.5	43
65.0	35

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CANDELA TABULATION - (Cont.)

67.5	29
70.0	24
72.5	19
75.0	15
77.5	12
80.0	9
82.5	6
85.0	3
87.5	0
90.0	0

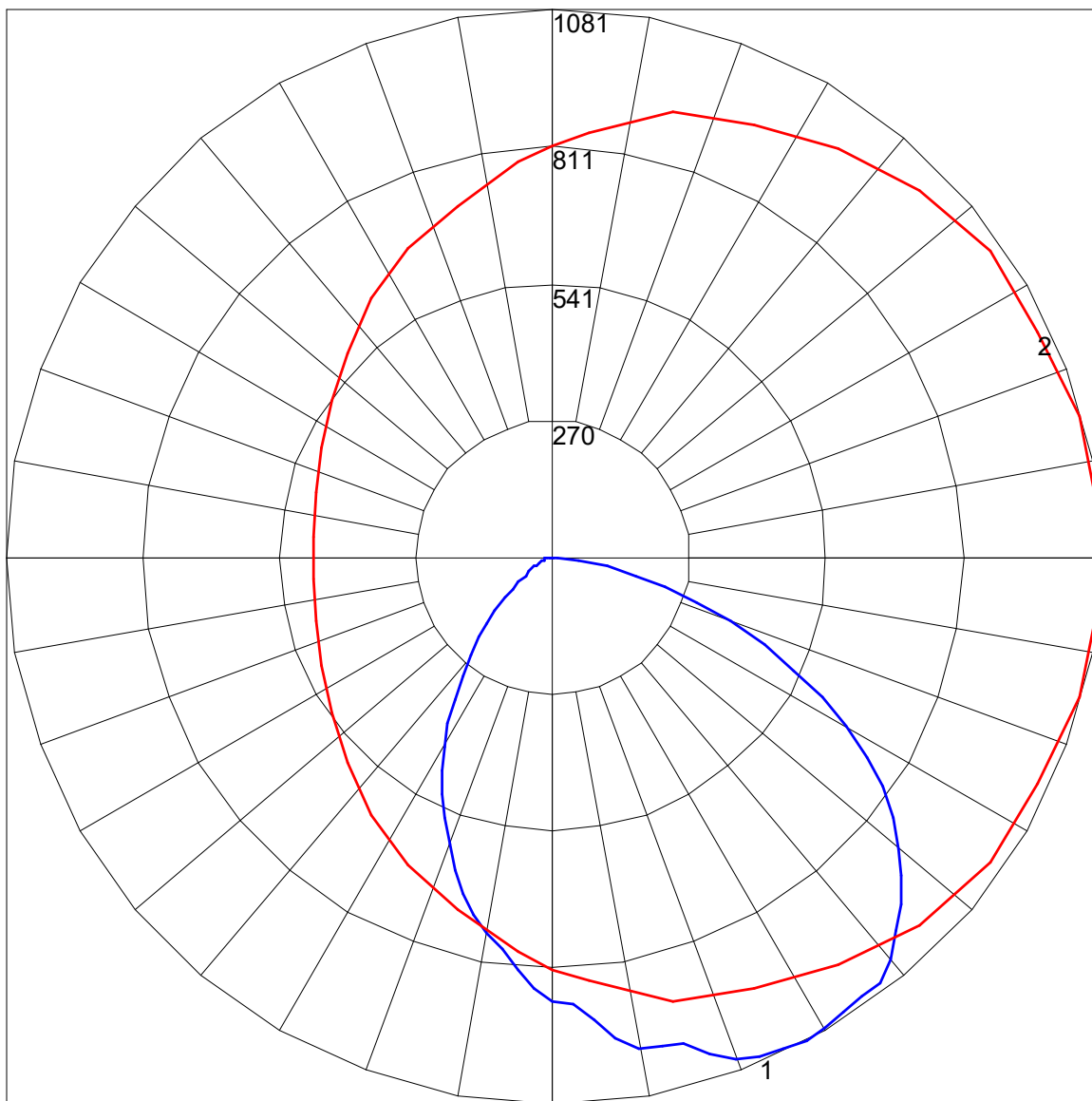
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

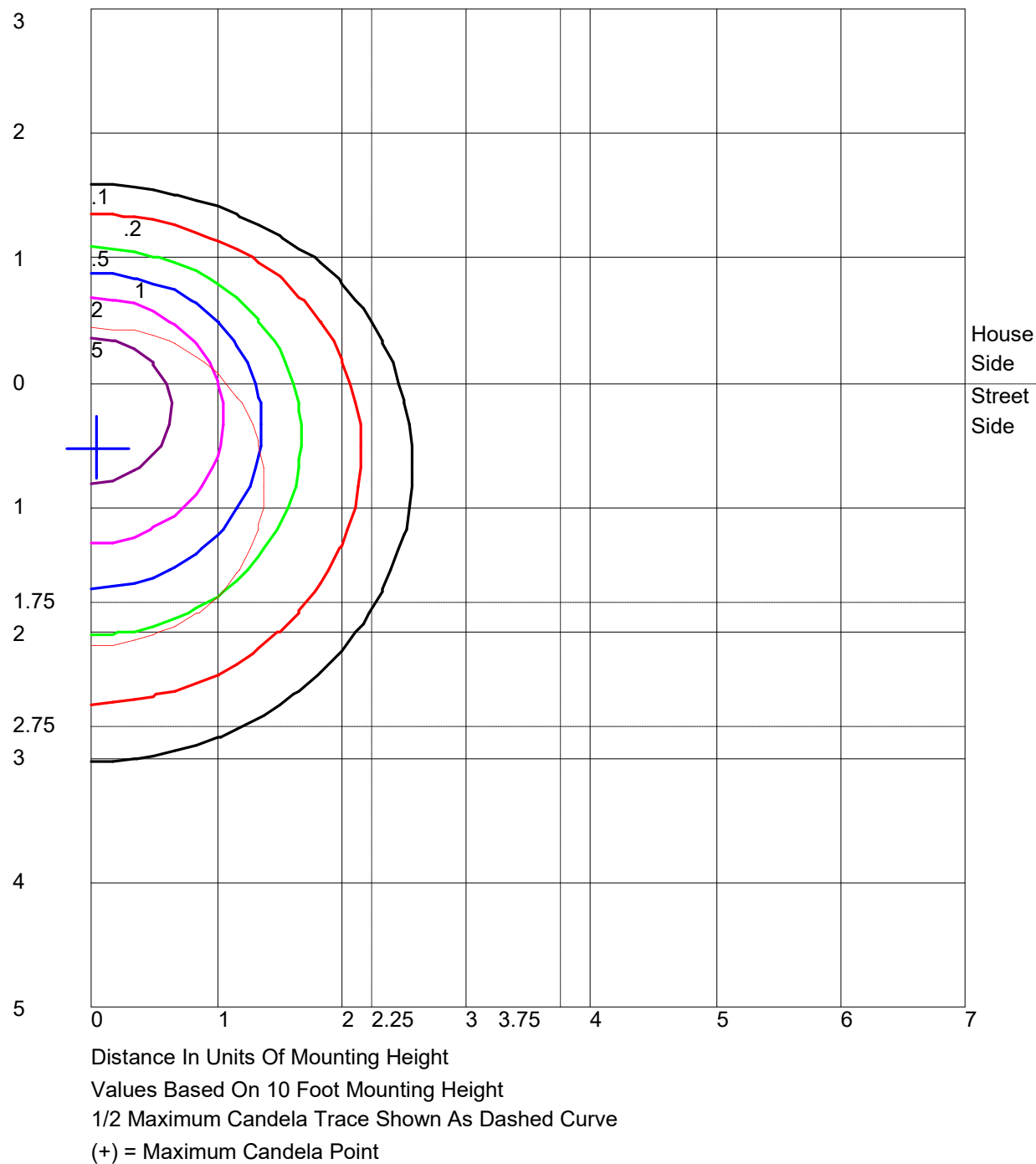
	Lumens	Percent Of Luminaire
Downward Street Side	1652.3	69.8
Downward House Side	713.8	30.2
Downward Total	2366.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2366.1	100.0

POLAR GRAPH

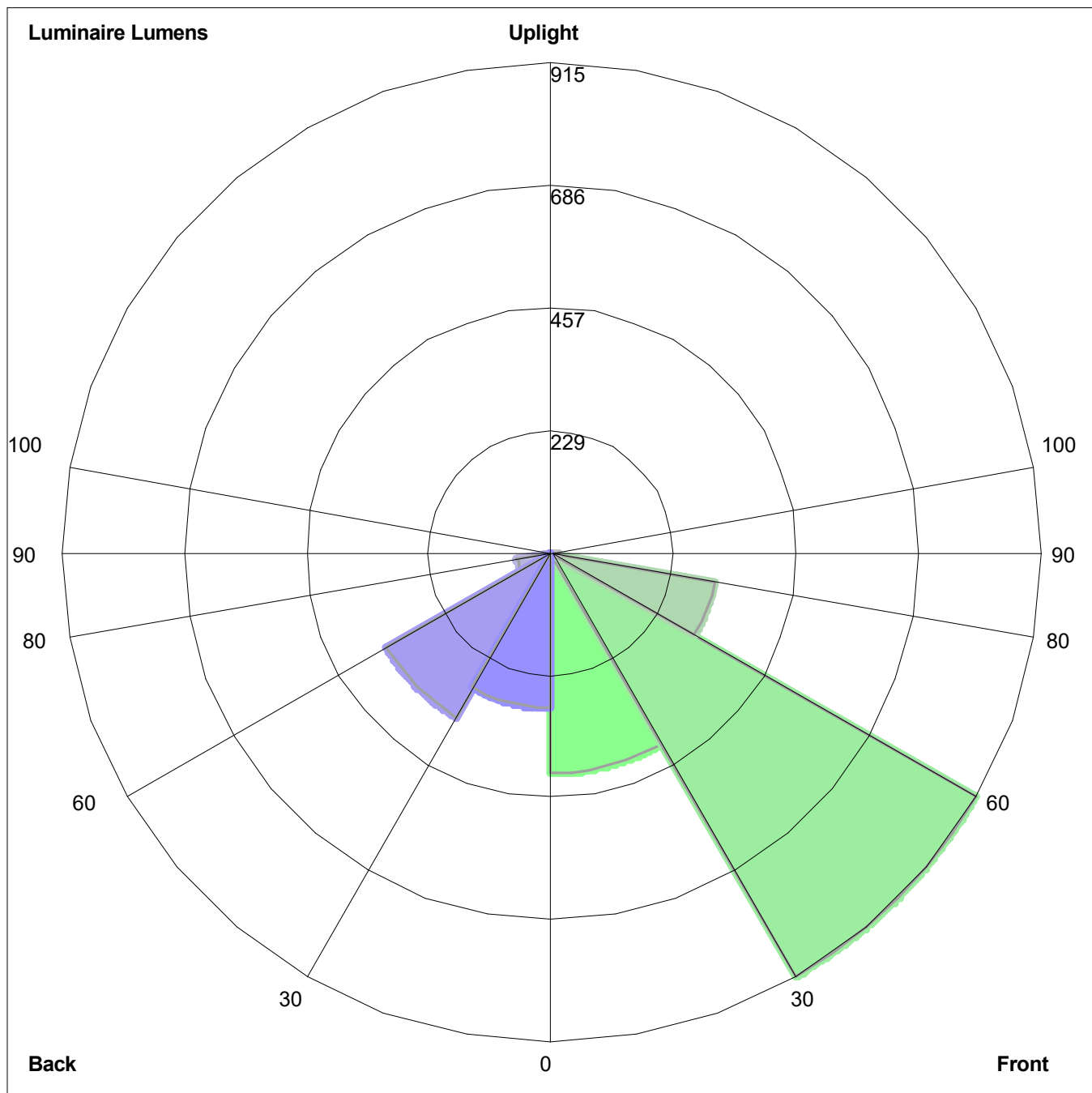


Maximum Candela = 1081 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=413.1, Medium=914.9, High=309.0, Very High=15.2
Back: Low=291.3, Medium=354.7, High=64.6, Very High=3.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1