



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSQ-02L-FT-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12867
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 08/26/2021
[TEST DATE] 07/30/21
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] GSQ-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	2378
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	18
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1104
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	1104
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	92 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	418.8	N.A.	17.6
FM - Front-Medium (30-60)	928.7	N.A.	39.1
FH - Front-High (60-80)	304.0	N.A.	12.8
FVH - Front-Very High (80-90)	13.5	N.A.	0.6
BL - Back-Low (0-30)	298.0	N.A.	12.5
BM - Back-Medium (30-60)	348.9	N.A.	14.7
BH - Back-High (60-80)	63.0	N.A.	2.6
BVH - Back-Very High (80-90)	3.2	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	2378.1	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	892	892	892	892	892	892	892	892	892	892
2.5	891	891	895	897	900	904	906	908	907	908
5.0	919	919	922	920	920	921	921	919	916	914
7.5	956	956	959	959	960	956	947	936	926	920
10.0	979	979	984	990	992	992	979	955	933	920
12.5	993	994	999	1004	1006	1008	994	963	932	910
15.0	1021	1020	1021	1023	1017	1010	996	969	932	906
17.5	1046	1045	1046	1046	1031	1007	990	969	937	901
20.0	1065	1064	1063	1064	1043	1015	993	973	936	892
22.5	1076	1074	1077	1076	1053	1027	1000	973	937	883
25.0	1090	1088	1091	1081	1056	1035	1004	968	932	871
27.5	1097	1097	1100	1089	1061	1038	1003	957	920	856
30.0	1104	1099	1100	1085	1059	1031	991	942	900	835
32.5	1101	1098	1096	1075	1053	1023	977	926	872	809
35.0	1093	1090	1084	1064	1041	1009	958	904	849	780
37.5	1078	1076	1068	1052	1023	983	935	880	817	750
40.0	1056	1053	1047	1028	1001	957	908	850	783	713
42.5	1029	1023	1017	997	970	927	872	814	744	675
45.0	995	991	982	960	931	892	837	775	703	633
47.5	953	947	941	920	890	849	796	735	661	590
50.0	907	901	893	872	845	801	752	689	616	545
52.5	851	850	843	822	791	750	697	637	567	500
55.0	795	793	786	767	734	694	642	582	517	453
57.5	732	732	724	705	675	635	586	529	469	406
60.0	661	659	652	640	610	571	528	478	418	359
62.5	586	584	580	563	540	509	470	423	368	312
65.0	509	508	501	491	473	445	411	369	319	268
67.5	431	429	424	416	400	380	352	316	270	225
70.0	354	353	348	342	330	317	294	265	225	186
72.5	279	275	275	272	264	252	238	213	182	151
75.0	203	206	207	205	201	194	183	167	143	117
77.5	141	141	146	145	144	141	132	121	106	86
80.0	86	86	88	91	90	92	88	81	70	59
82.5	39	39	41	44	47	49	50	47	42	34
85.0	6	6	7	8	13	17	19	20	18	14
87.5	0	0	0	0	0	0	1	2	3	2
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	892	892	892	892	892	892	892	892	892	892
2.5	908	908	902	897	892	884	879	872	866	864
5.0	912	910	900	890	880	868	856	848	840	838
7.5	916	911	895	881	867	852	838	822	811	805
10.0	912	903	882	866	849	828	809	792	779	773
12.5	901	891	864	842	820	796	776	759	747	736
15.0	894	881	849	822	793	761	740	724	713	701
17.5	889	873	839	802	767	733	707	688	666	652
20.0	879	863	822	782	743	703	667	638	621	609
22.5	866	846	803	753	710	664	624	594	576	562
25.0	851	826	776	721	674	621	583	550	531	515
27.5	831	804	748	688	637	578	538	505	483	470

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CANDELA TABULATION - (Cont.)

30.0	809	779	718	656	596	538	493	460	437	423
32.5	781	749	682	618	549	494	447	412	387	371
35.0	749	716	645	576	506	450	402	365	339	322
37.5	716	678	606	532	460	402	355	318	289	275
40.0	678	640	566	489	417	358	311	273	245	232
42.5	634	599	526	444	373	314	264	227	205	193
45.0	592	556	483	399	330	271	222	190	171	161
47.5	550	515	437	357	290	230	186	159	140	132
50.0	506	470	393	317	251	194	155	130	113	106
52.5	460	425	351	274	213	162	128	104	90	83
55.0	414	382	310	237	179	134	103	83	72	66
57.5	371	339	269	203	151	110	83	67	57	52
60.0	327	297	232	172	124	89	66	53	45	42
62.5	283	257	197	145	101	71	53	42	37	34
65.0	241	218	167	120	82	57	42	34	30	29
67.5	203	182	138	98	66	46	34	28	26	25
70.0	168	149	111	78	52	35	27	23	22	21
72.5	135	120	88	61	39	28	21	19	18	18
75.0	105	93	68	44	30	21	16	15	15	15
77.5	77	68	49	30	21	14	12	11	11	11
80.0	53	46	32	20	13	9	8	8	8	8
82.5	31	27	18	11	7	5	5	5	5	5
85.0	13	12	8	5	3	2	2	2	3	3
87.5	2	2	2	1	1	1	1	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

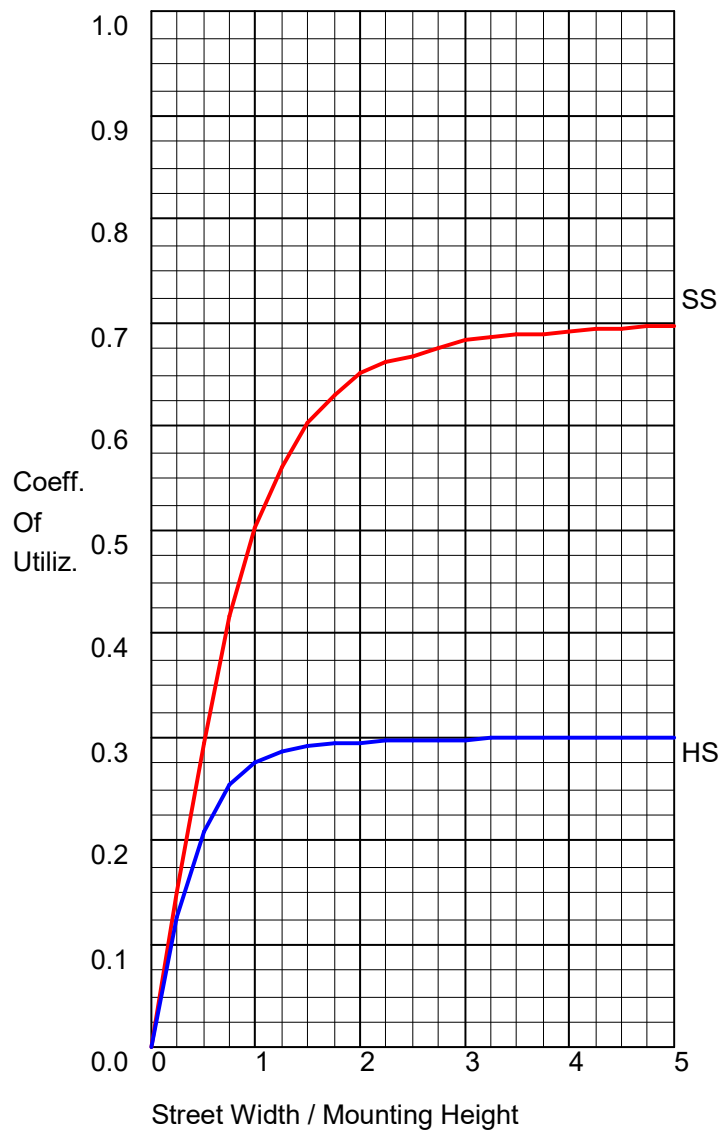
	180
0.0	892
2.5	863
5.0	837
7.5	805
10.0	772
12.5	735
15.0	699
17.5	648
20.0	607
22.5	561
25.0	513
27.5	463
30.0	418
32.5	369
35.0	320
37.5	274
40.0	230
42.5	192
45.0	160
47.5	131
50.0	105
52.5	83
55.0	64
57.5	51
60.0	41
62.5	34
65.0	29

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CANDELA TABULATION - (Cont.)

67.5	25
70.0	21
72.5	18
75.0	15
77.5	11
80.0	8
82.5	5
85.0	3
87.5	0
90.0	0

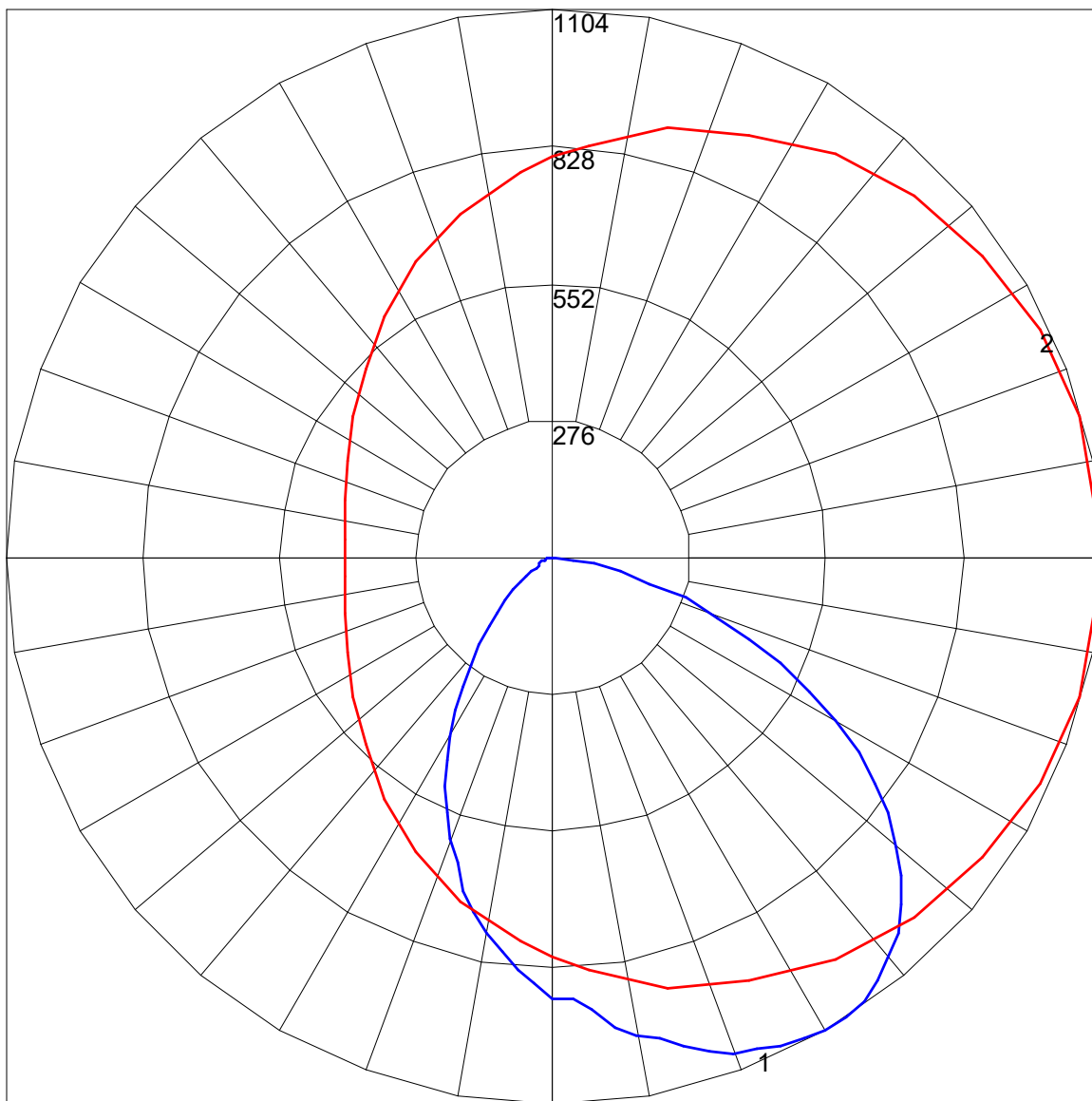
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

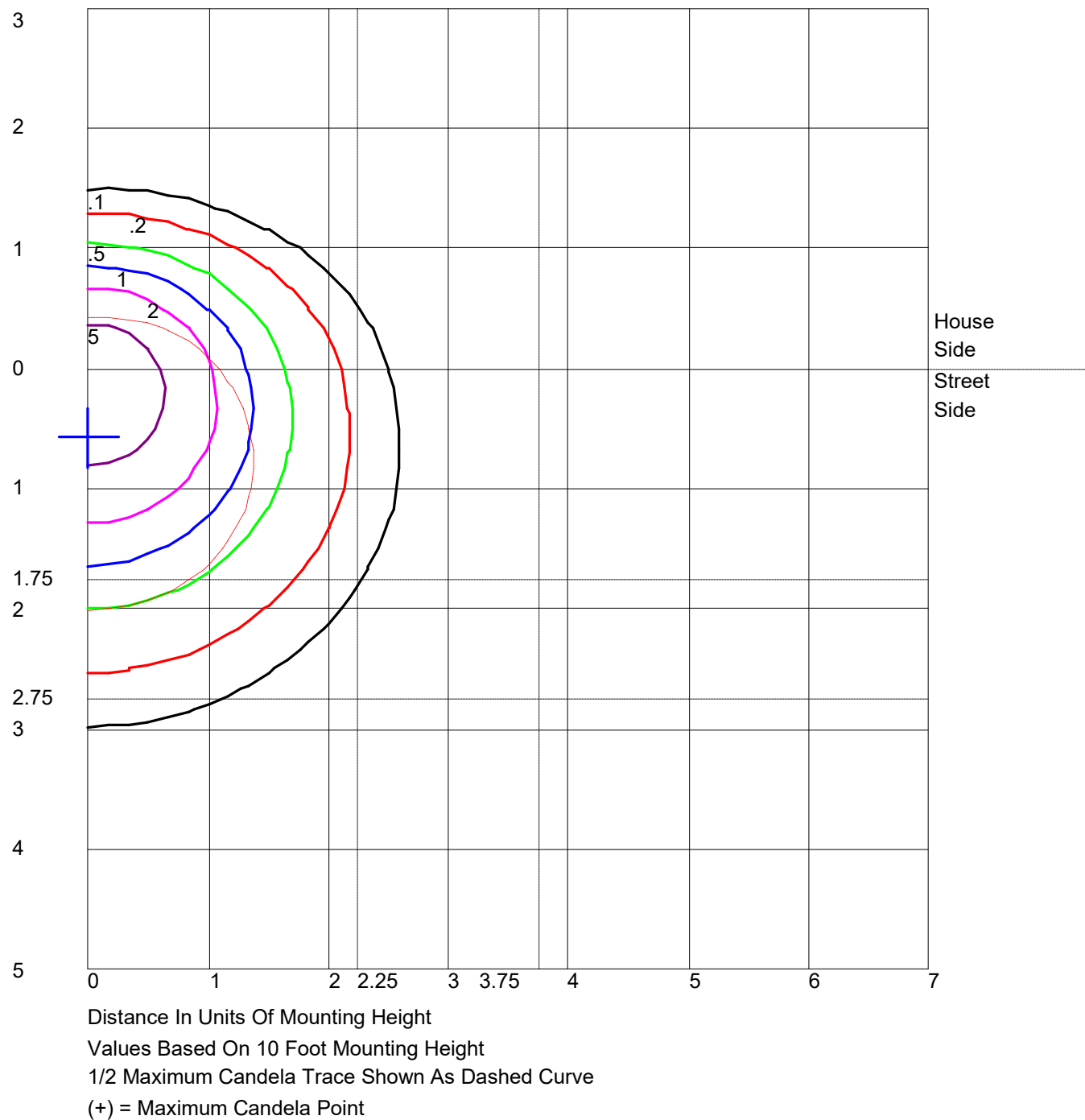
	Lumens	Percent Of Luminaire
Downward Street Side	1665.0	70.0
Downward House Side	713.2	30.0
Downward Total	2378.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2378.2	100.0

POLAR GRAPH

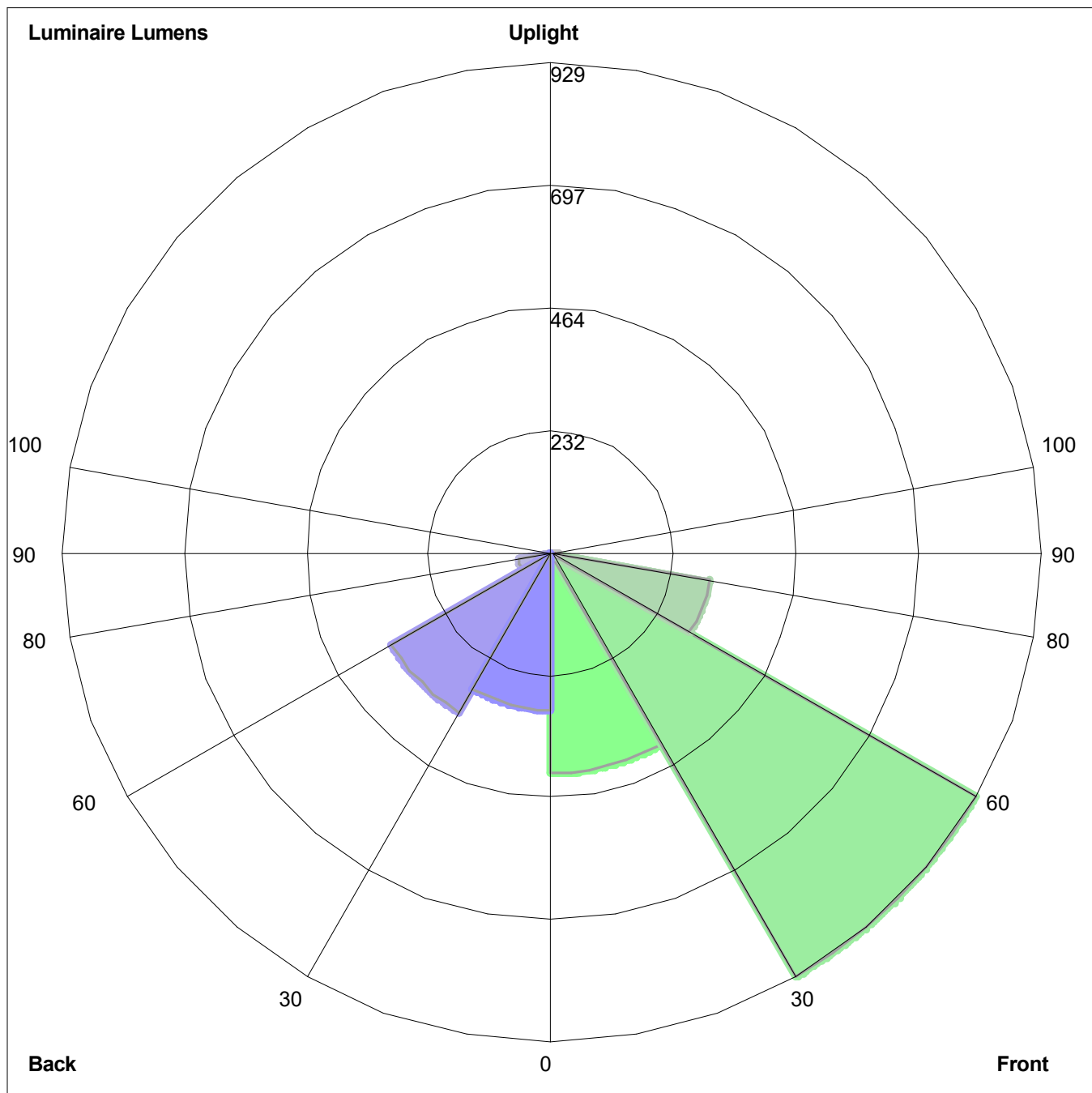


Maximum Candela = 1104 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=418.8, Medium=928.7, High=304.0, Very High=13.5
Back: Low=298.0, Medium=348.9, High=63.0, Very High=3.2
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1