



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GST-02L-FT-50.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-50  
[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] 5000

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2335
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	18
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1104
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1104
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)	419.3	N.A.	18.0
FM - Front-Medium (30-60)	916.4	N.A.	39.2
FH - Front-High (60-80)	289.7	N.A.	12.4
FVH - Front-Very High (80-90)	11.7	N.A.	0.5
BL - Back-Low (0-30)	294.4	N.A.	12.6
BM - Back-Medium (30-60)	340.1	N.A.	14.6
BH - Back-High (60-80)	59.8	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	2334.8	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>	901	901	901	901	901	901	901	901	901	901
<b>2.5</b>	905	905	907	909	912	914	916	918	918	916
<b>5.0</b>	929	929	929	930	930	930	928	926	921	915
<b>7.5</b>	960	960	959	956	954	947	939	934	926	916
<b>10.0</b>	993	993	991	987	982	967	953	942	931	916
<b>12.5</b>	1005	1004	1005	1004	997	986	968	951	935	916
<b>15.0</b>	1029	1028	1022	1014	1006	997	982	962	938	913
<b>17.5</b>	1060	1060	1055	1042	1024	1005	992	972	940	909
<b>20.0</b>	1075	1078	1078	1064	1048	1021	997	979	939	901
<b>22.5</b>	1082	1083	1082	1072	1064	1039	998	978	933	886
<b>25.0</b>	1097	1096	1090	1074	1066	1050	1006	967	921	870
<b>27.5</b>	1101	1104	1095	1084	1067	1053	1009	954	907	855
<b>30.0</b>	1095	1100	1094	1091	1066	1040	997	936	897	839
<b>32.5</b>	1086	1086	1088	1079	1053	1025	981	924	875	806
<b>35.0</b>	1070	1075	1073	1057	1037	1012	959	910	847	775
<b>37.5</b>	1052	1059	1052	1035	1017	989	934	885	812	744
<b>40.0</b>	1028	1036	1024	1012	991	955	909	853	777	708
<b>42.5</b>	998	1004	992	979	958	921	879	814	741	670
<b>45.0</b>	964	967	956	944	921	882	838	773	700	628
<b>47.5</b>	925	926	916	903	878	840	793	732	658	583
<b>50.0</b>	876	881	872	856	830	791	745	686	611	537
<b>52.5</b>	821	823	816	805	778	735	688	632	565	489
<b>55.0</b>	755	761	755	745	721	682	632	581	515	442
<b>57.5</b>	691	695	691	681	659	620	573	524	463	395
<b>60.0</b>	624	624	624	614	593	556	516	467	410	347
<b>62.5</b>	553	552	551	545	521	491	455	412	360	304
<b>65.0</b>	479	479	478	467	451	426	394	357	311	261
<b>67.5</b>	405	406	403	396	379	361	335	304	265	219
<b>70.0</b>	333	331	331	326	313	296	278	252	220	182
<b>72.5</b>	263	261	262	258	249	236	223	200	176	145
<b>75.0</b>	190	194	196	195	189	180	165	153	135	113
<b>77.5</b>	129	133	134	136	133	126	118	110	100	84
<b>80.0</b>	74	74	79	83	84	81	77	72	66	57
<b>82.5</b>	29	29	31	37	40	43	42	41	39	34
<b>85.0</b>	2	2	3	5	9	14	16	17	17	15
<b>87.5</b>	0	0	0	0	0	0	1	2	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>	901	901	901	901	901	901	901	901	901	901
<b>2.5</b>	916	914	910	904	898	892	885	878	872	869
<b>5.0</b>	912	908	900	889	880	870	859	849	839	838
<b>7.5</b>	910	902	887	870	854	838	825	812	802	800
<b>10.0</b>	909	897	873	849	825	804	786	773	765	763
<b>12.5</b>	904	891	863	830	802	775	755	739	729	723
<b>15.0</b>	902	887	855	815	780	748	718	699	691	689
<b>17.5</b>	895	879	843	795	759	719	688	663	652	649
<b>20.0</b>	883	862	818	769	732	693	658	625	608	604
<b>22.5</b>	865	841	788	741	696	659	622	588	565	560
<b>25.0</b>	850	825	765	715	663	618	581	548	519	510
<b>27.5</b>	833	805	736	680	627	578	536	498	467	457

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**CANDELA TABULATION - (Cont.)**

30.0	808	775	704	640	586	537	489	449	422	410
32.5	777	746	671	605	545	491	441	402	375	359
35.0	746	711	635	565	500	442	396	357	325	308
37.5	714	671	595	524	457	396	350	309	278	260
40.0	673	632	552	482	414	353	303	262	231	215
42.5	633	591	510	436	366	308	256	217	192	179
45.0	589	550	467	392	325	266	216	181	160	148
47.5	545	503	424	351	283	223	179	149	131	122
50.0	498	457	382	310	245	187	148	124	107	98
52.5	453	411	338	269	207	155	122	101	87	79
55.0	407	369	298	231	173	128	100	82	70	64
57.5	362	326	257	197	142	105	81	66	56	51
60.0	320	282	222	165	117	85	65	53	44	41
62.5	275	244	189	137	95	68	52	42	36	33
65.0	234	208	157	112	77	55	41	34	29	27
67.5	197	175	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**

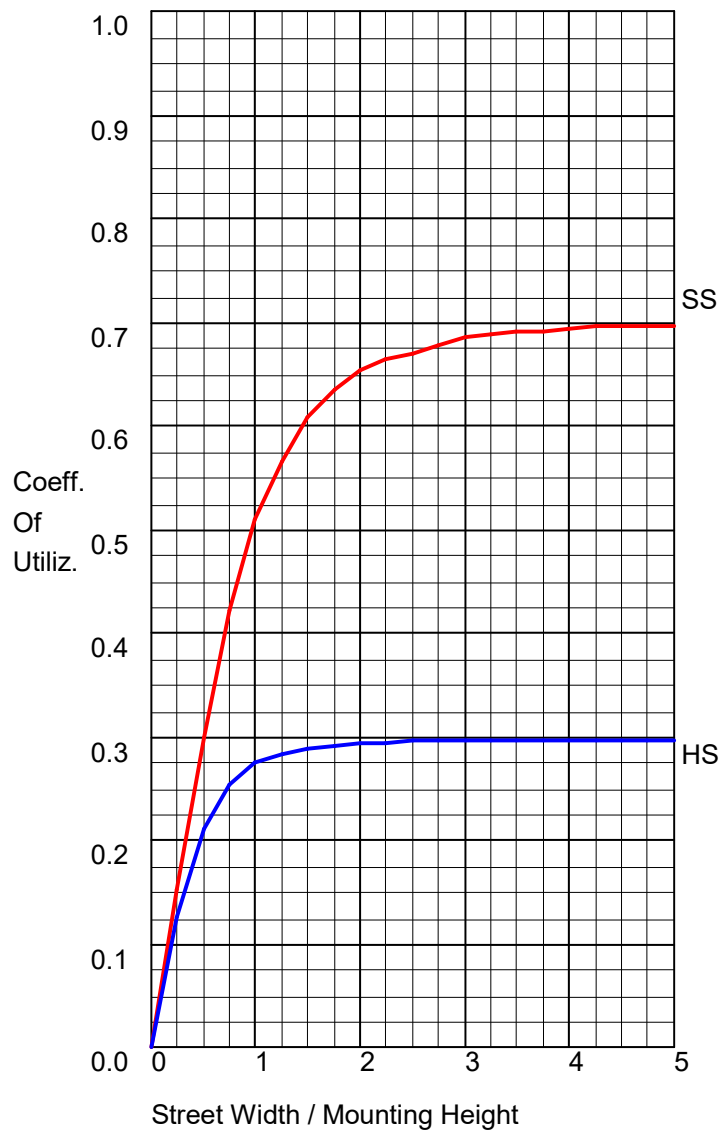
	<b>180</b>
0.0	901
2.5	868
5.0	838
7.5	800
10.0	763
12.5	723
15.0	689
17.5	648
20.0	602
22.5	561
25.0	512
27.5	459
30.0	407
32.5	359
35.0	309
37.5	261
40.0	215
42.5	178
45.0	147
47.5	121
50.0	98
52.5	79
55.0	62
57.5	49
60.0	40
62.5	33
65.0	27

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**CANDELA TABULATION - (Cont.)**

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

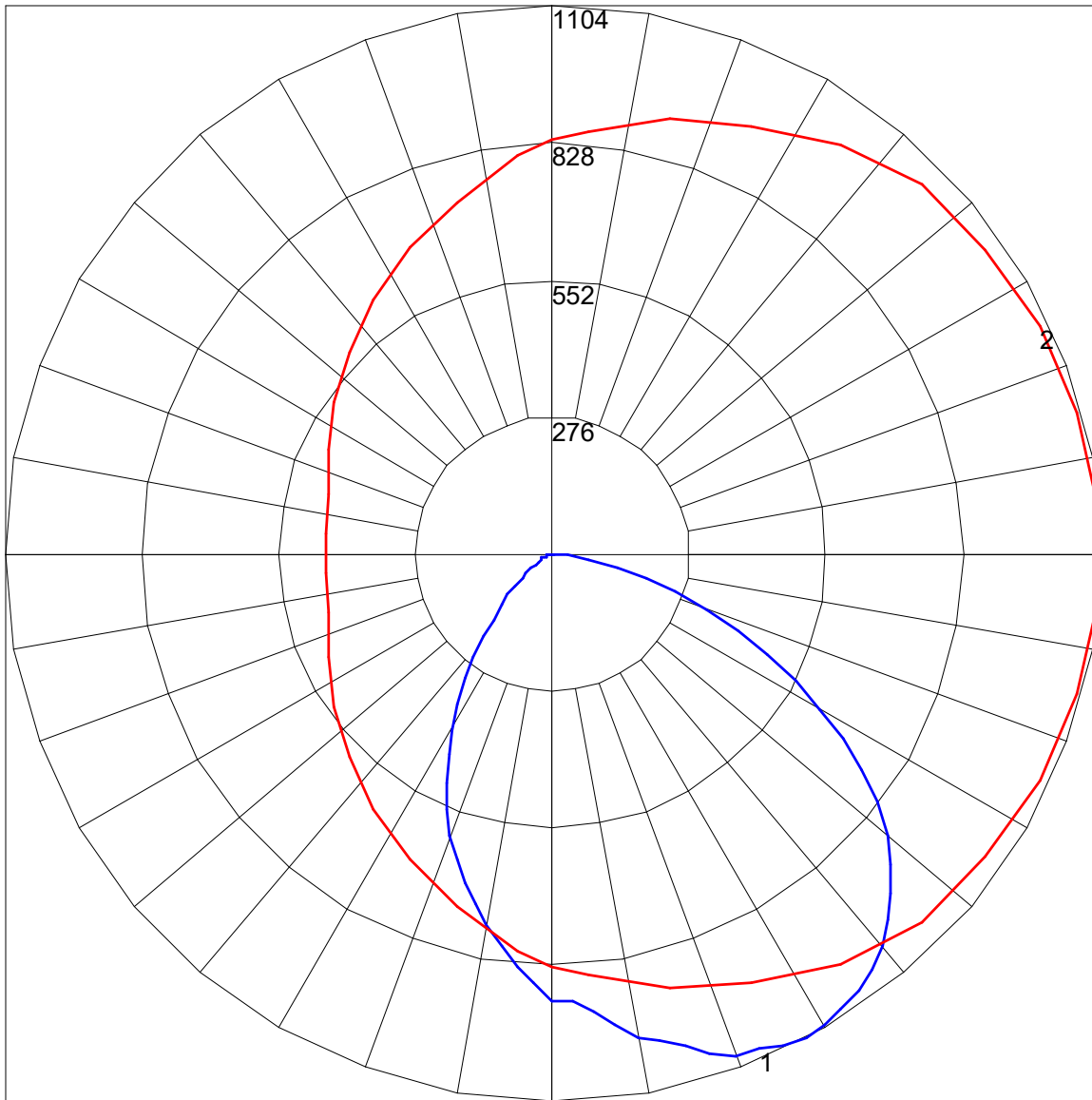
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

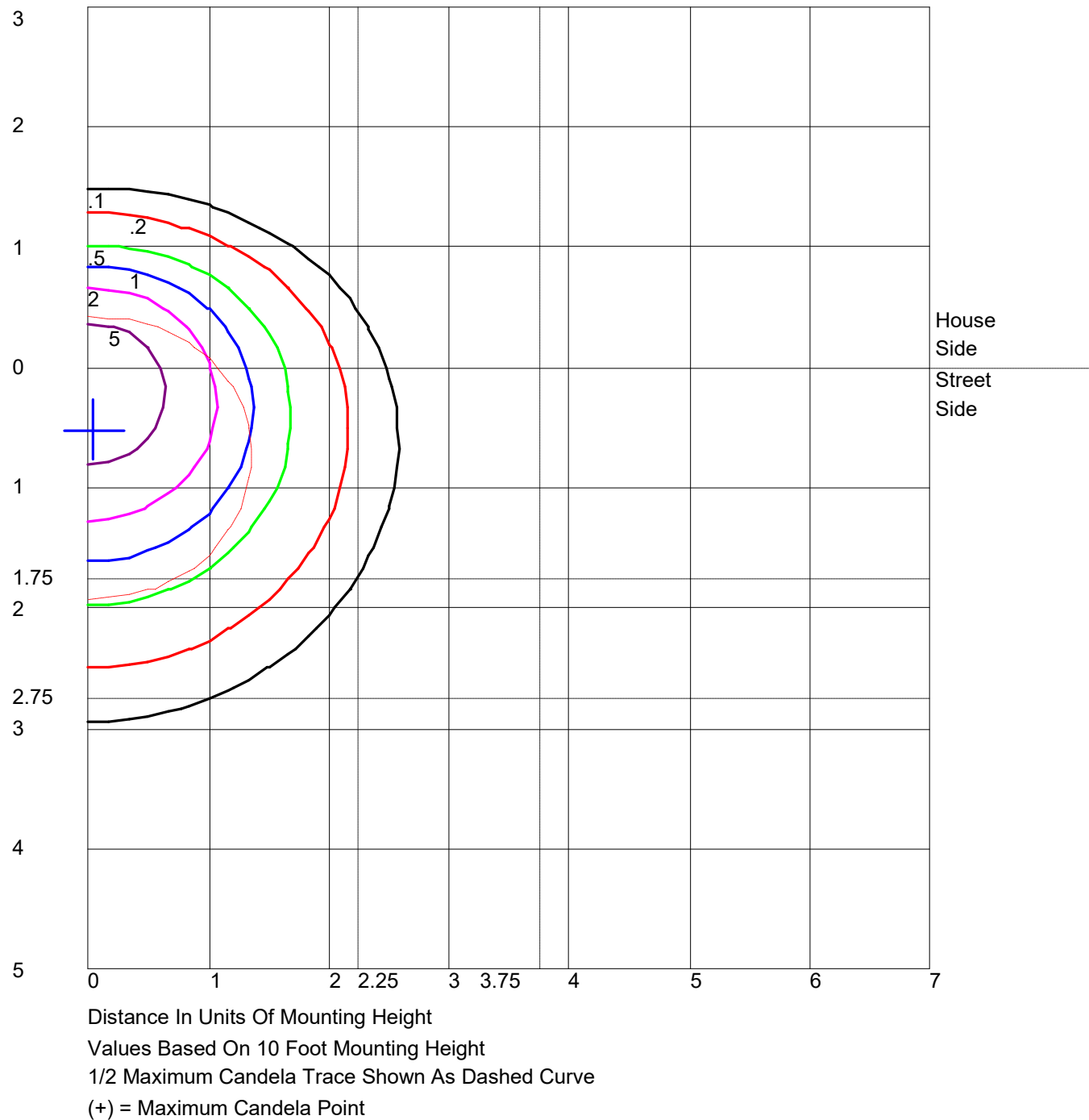
	Lumens	Percent Of Luminaire
Downward Street Side	1637.1	70.1
Downward House Side	697.6	29.9
Downward Total	2334.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2334.7	100.0

POLAR GRAPH



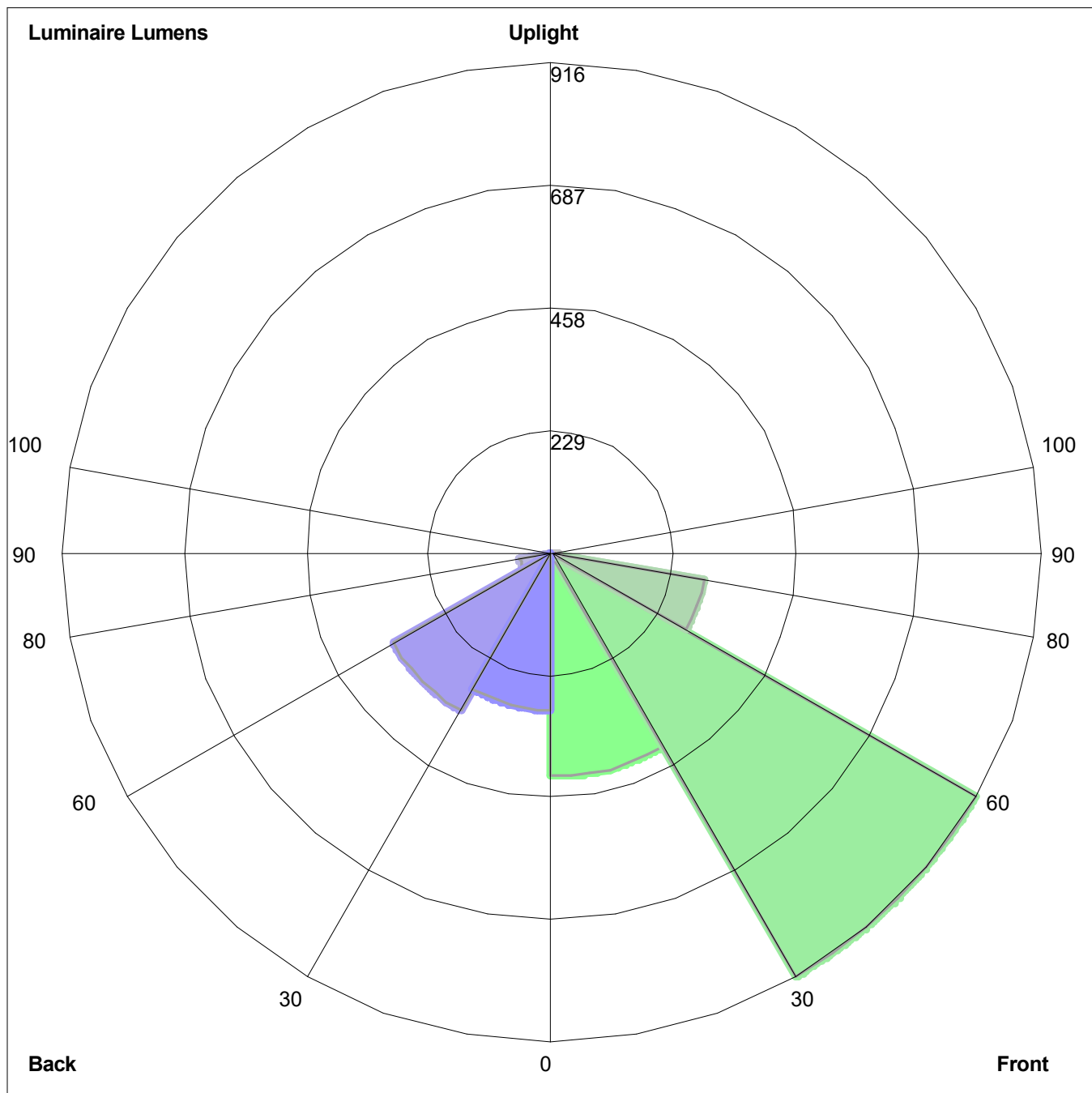
Maximum Candela = 1104 Located At Horizontal Angle = 5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=419.3, Medium=916.4, High=289.7, Very High=11.7  
Back: Low=294.4, Medium=340.1, High=59.8, Very High=3.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1