



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4-LED-34L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 2,914

[TESTLAB] TUV SUD America

[TESTDATE] 5/12/2016 1:03:55 PM

[ISSUE DATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] TEL22-4-LED-34L-45

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	31012
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	300.44
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14995
Maximum Candela Angle	50H 70V
Maximum Candela (<90 Degrees Vertical)	14995
Maximum Candela Angle (<90 Degrees Vertical)	50H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4554 (14.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2671.4	N.A.	8.6
FM - Front-Medium (30-60)	10136.8	N.A.	32.7
FH - Front-High (60-80)	8439.0	N.A.	27.2
FVH - Front-Very High (80-90)	346.6	N.A.	1.1
BL - Back-Low (0-30)	2197.0	N.A.	7.1
BM - Back-Medium (30-60)	5116.7	N.A.	16.5
BH - Back-High (60-80)	2011.3	N.A.	6.5
BVH - Back-Very High (80-90)	93.6	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	31012.4	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	5428	5428	5428	5428	5428	5428	5428	5428	5428	5428
5	5696	5693	5689	5777	5729	5677	5614	5548	5484	5429
10	6052	6121	6141	6062	5960	5859	5766	5671	5571	5467
15	6416	6503	6414	6288	6156	6075	5988	5867	5720	5569
20	6724	6775	6682	6560	6446	6379	6281	6116	5906	5698
25	6947	6996	6963	6914	6862	6777	6627	6420	6119	5840
30	7262	7336	7338	7343	7291	7169	6999	6767	6376	6013
35	7707	7798	7829	7827	7696	7544	7412	7189	6722	6228
40	8244	8312	8313	8227	8094	7972	7913	7720	7205	6519
45	8885	8890	8774	8622	8514	8439	8528	8408	7956	6992
50	9847	9827	9576	9359	9136	9004	9322	9342	8885	7596
55	11167	11241	10896	10448	9958	9814	10333	10268	9536	7855
60	12079	12367	12302	12128	11352	11286	11517	10869	9544	7370
65	10038	10572	11561	12865	13683	13846	12155	10507	8550	6008
70	4965	5768	8086	11060	14274	14995	11935	9135	6686	4014
75	1673	2137	3389	5555	10392	11288	9093	6418	4235	2011
80	462	588	926	1594	3749	4554	3683	2522	1586	645
85	37	67	123	225	479	708	479	288	181	112
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0	5428	5428	5428	5428	5428	5428	5428	5428	5428	5428
5	5376	5327	5285	5245	5212	5240	5224	5216	5210	5207
10	5367	5277	5197	5129	5077	5042	5033	5038	5035	5038
15	5427	5302	5196	5112	5052	5028	5022	4998	4990	4991
20	5508	5343	5218	5149	5118	5108	5104	5081	5066	5054
25	5592	5386	5256	5212	5179	5116	5066	5025	5006	5038
30	5686	5436	5311	5250	5162	5169	5178	5151	5114	5107
35	5787	5480	5347	5209	5179	5169	5086	5050	5138	5098
40	5905	5528	5289	5079	4874	4661	4463	4393	4533	4488
45	6097	5592	5025	4568	4184	3883	3661	3563	3695	3685
50	6391	5358	4338	3687	3351	3168	3101	3055	2999	3035
55	6318	4444	3329	2844	2828	2951	3048	3060	2985	3019

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CANDELA TABULATION - (Cont.)

60	5235	3106	2501	2356	2560	2884	3044	3112	3101	3112
65	3537	2096	2024	2070	2232	2624	2893	3004	3020	2990
70	1968	1546	1649	1639	1934	2183	2375	2370	2521	2555
75	956	1049	1175	1166	1378	1420	1445	1301	1542	1570
80	422	498	589	587	609	582	515	344	452	493
85	103	117	146	136	124	106	74	35	41	42
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	5428	5428	5428	5428	5428	5428	5428	5428	5428	5428
5	5209	5219	5237	5261	5292	5326	5364	5408	5446	5486
10	5050	5069	5094	5139	5198	5266	5341	5425	5503	5584
15	4993	5010	5041	5095	5172	5268	5381	5501	5630	5761
20	5051	5058	5071	5106	5179	5296	5454	5622	5813	6000
25	5087	5111	5125	5158	5218	5352	5557	5794	6049	6316
30	5099	5098	5142	5207	5283	5409	5665	5992	6341	6697
35	5097	5104	5135	5192	5323	5449	5753	6211	6720	7164
40	4568	4723	4903	5055	5249	5492	5847	6471	7161	7656
45	3771	3954	4209	4538	4946	5537	6012	6860	7795	8232
50	3118	3233	3367	3632	4242	5201	6271	7380	8670	9127
55	3014	2898	2749	2760	3207	4194	6085	7610	9320	10124
60	3054	2831	2506	2266	2375	2898	4813	6924	9126	10692
65	2874	2619	2217	1989	1924	1971	3027	5422	8000	10245
70	2474	2249	1828	1605	1548	1465	1649	3423	6026	8682
75	1580	1509	1260	1137	1091	931	818	1487	3446	5592
80	634	620	560	542	531	393	317	409	1126	1853
85	59	81	94	94	102	76	65	71	82	131
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

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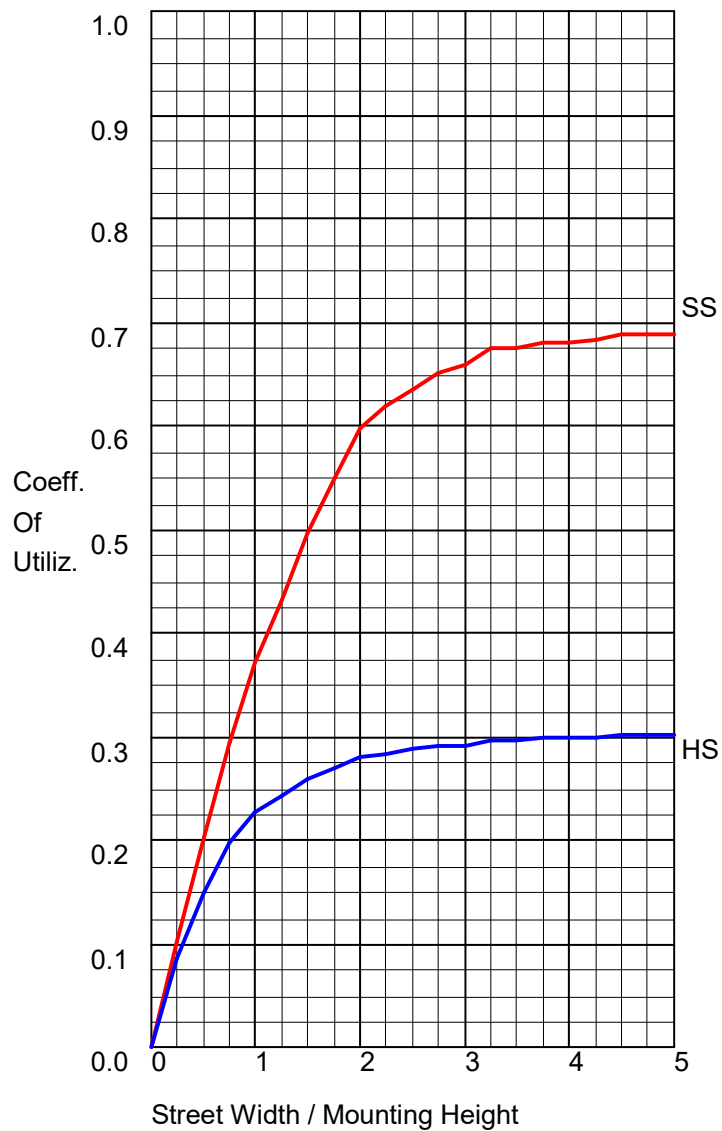
CANDELA TABULATION - (Cont.)

135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0	5428	5428	5428	5428	5428	5428	5428
5	5526	5567	5607	5642	5670	5689	5696
10	5667	5748	5825	5900	5977	6028	6052
15	5882	5979	6056	6142	6246	6342	6416
20	6157	6266	6341	6418	6521	6626	6724
25	6503	6627	6714	6778	6842	6886	6947
30	6927	7059	7134	7175	7202	7190	7262
35	7406	7518	7576	7617	7649	7625	7707
40	7898	7997	8031	8049	8105	8128	8244
45	8375	8424	8515	8507	8538	8633	8885
50	9022	8775	9005	9192	9250	9403	9847
55	10040	9443	9628	10211	10542	10741	11167
60	11278	10984	10882	11603	11913	12059	12079
65	11835	13318	13161	12511	11886	11573	10038
70	11023	14184	14023	10747	9074	7854	4965
75	7924	10409	10105	6485	4048	2803	1673
80	2947	4070	3657	1689	1147	833	462
85	221	328	314	173	139	123	37
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

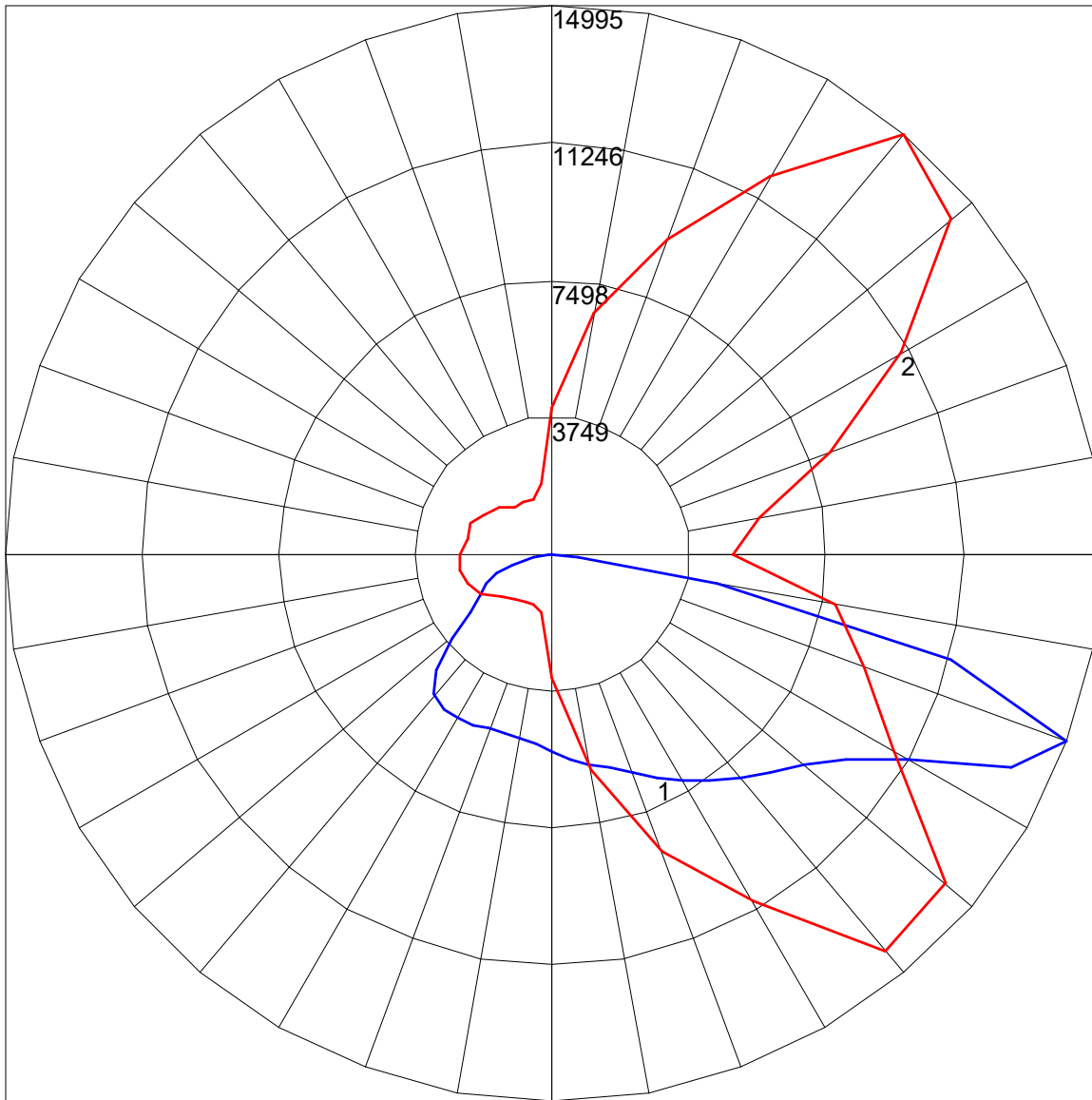
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

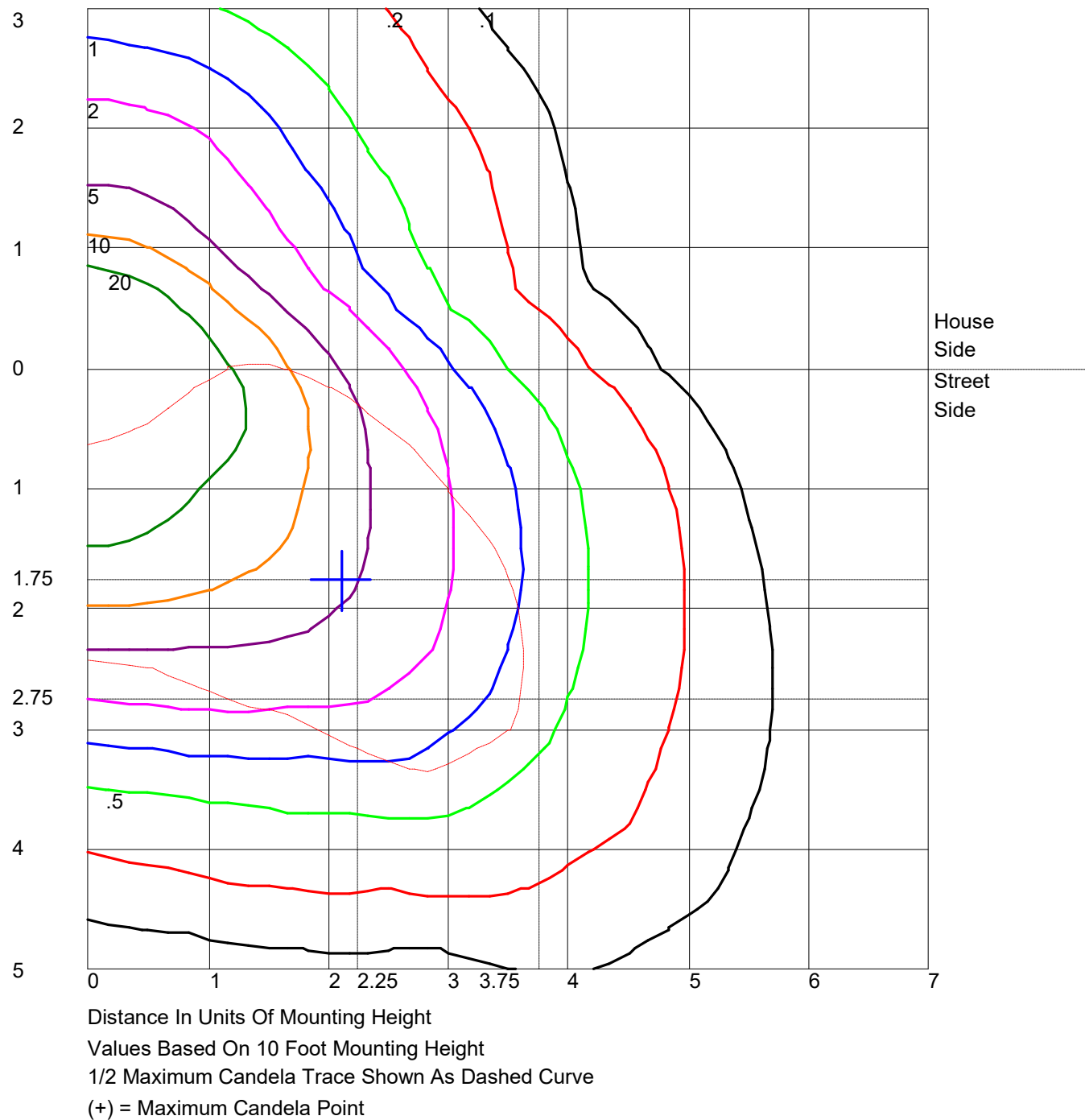
	Lumens	Percent Of Luminaire
Downward Street Side	21593.8	69.6
Downward House Side	9418.6	30.4
Downward Total	31012.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	31012.4	100.0

POLAR GRAPH

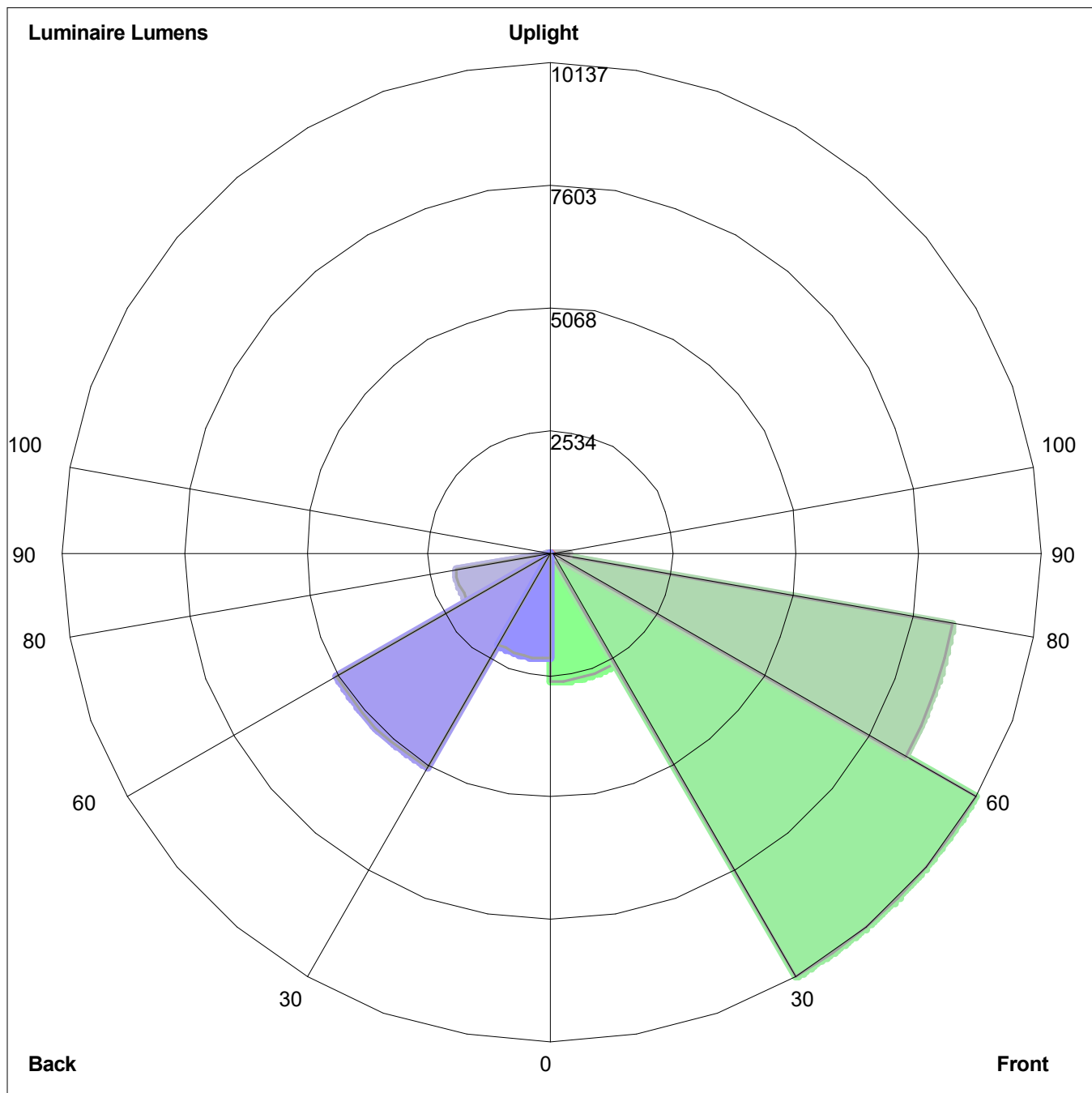


Maximum Candela = 14995 Located At Horizontal Angle = 50, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2671.4, Medium=10136.8, High= 8439.0, Very High=346.6
Back: Low= 2197.0, Medium=5116.7, High=2011.3, Very High=93.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4