



8165 E Kaiser Blvd. Anaheim, CA 92808
p. 714.282.2270
f. 714.676.5558

Report No: L091604014R01

Date: 11/3/2016



NVLAP LAB CODE 200927-0

Report No: L091604014R01

Report Prepared For: Leotek Electronics USA, LLC
1955 Lundy Ave, San Jose, 95131

Model Number: GCJ0-15H-MV-CW-5-XX-700

Test: Electrical and Photometric tests

Standards Used: Appropriate part or all test guidelines were used for test performed:
IESNA LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products
ANSI NEMA ANSLG C78.377: 2008 Specification of the Chromaticity of Solid State Lighting Products
ANSI C82.77:2002: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Catalog number is GCJ0-15H-MV-CW-5-XX-700 . Received in working and undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 9/12/16

Date of Tests: 9/23/16 - 9/23/16

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S1	11/18/16
Xitron Power Analyzer	2503AH	MT-EL01	11/30/16
ITECH DC Power Supply	IT6122	PSDC-03-S1	11/17/16
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/24/16
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

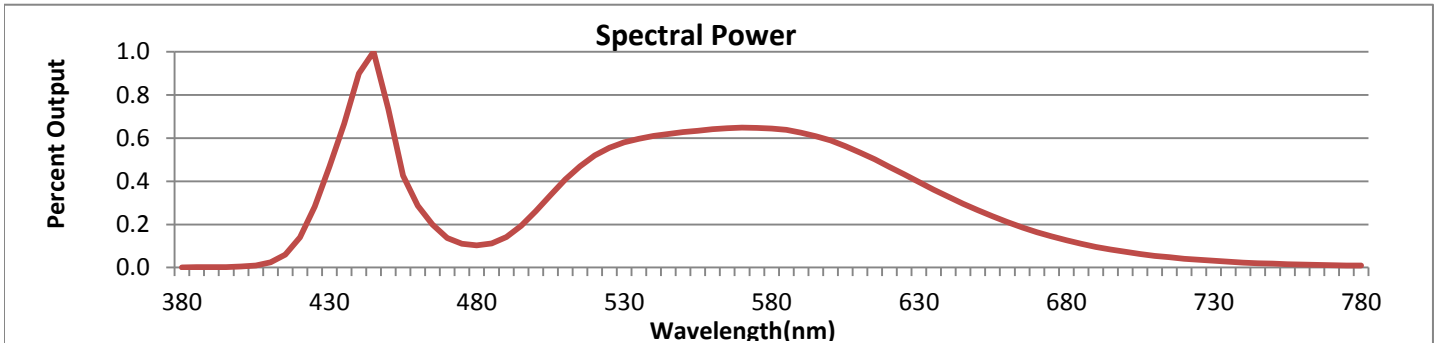
*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

Test Summary

Manufacturer:	Leotek Electronics USA, LLC	
Model Number:	GCJ0-15H-MV-CW-5-XX-700	
Driver Model Number:	LITEON PA-1600-31SL	
Total Lumens:	4238.40	
Input Voltage (VAC/60Hz):	120.00	
Input Current (Amp):	0.30	
Input Power (W):	35.14	
Input Power Factor:	0.99	
Current ATHD @ 120V(%):	11%	
Current ATHD @ 277V(%):	15% (0.13A, 34.28W, 0.93PF)	
Efficacy:	121	
Color Rendering Index (CRI):	72	
Correlated Color Temperature (K):	4875	
Chromaticity Coordinate x:	0.3495	
Chromaticity Coordinate y:	0.3610	
Ambient Temperature (°C):	25.0	
Stabilization Time (Hours):	0:35	
Total Operating Time (Hours):	3:35	
Off State Power(W):	0.00	



FIG. 1 LUMINAIRE



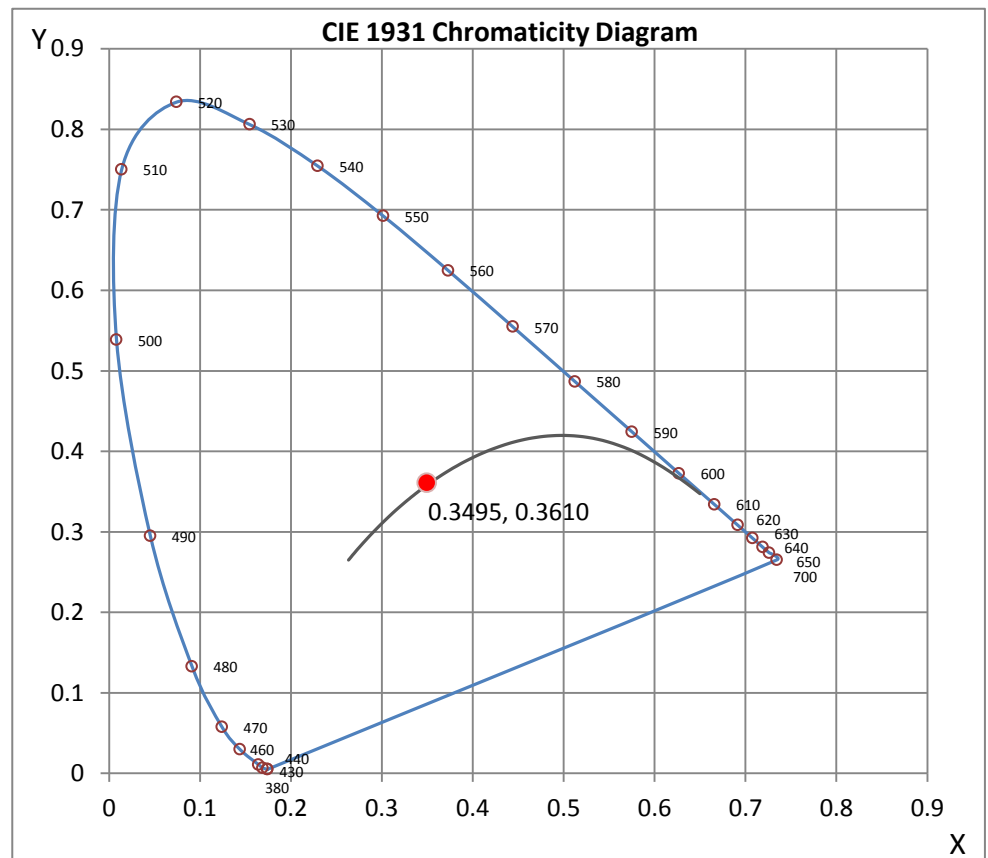
Wavelength	W/m ² nm	440	0.9003	510	0.4085	580	0.6442	650	0.2656	720	0.0410
380	0.0012	450	0.7353	520	0.5193	590	0.6252	660	0.2108	730	0.0309
390	0.0016	460	0.2869	530	0.5806	600	0.5889	670	0.1639	740	0.0235
400	0.0046	470	0.1370	540	0.6103	610	0.5333	680	0.1262	750	0.0177
410	0.0235	480	0.1035	550	0.6282	620	0.4671	690	0.0958	760	0.0134
420	0.1398	490	0.1409	560	0.6412	630	0.3967	700	0.0725	770	0.0102
430	0.4676	500	0.2615	570	0.6487	640	0.3282	710	0.0546	780	0.0089

CRI & CCT

x	0.3495
y	0.3610
u'	0.2108
v'	0.4898
CRI	72.40
CCT	4875
Duv	0.00294

R Values

R1	71.01
R2	75.71
R3	79.73
R4	74.39
R5	71.34
R6	67.42
R7	80.03
R8	59.86
R9	-20.42
R10	42.89
R11	73.15
R12	46.25
R13	70.81
R14	88.12





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Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : JEFF AHN

Test Report Released by:

Jeff Ahn
Engineering Manager

Test Report Reviewed by:

Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 17*

**All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.*



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Photometric Test Report

IES ROAD REPORT

PHOTOMETRIC FILENAME : L091604014.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L091604014
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUEDATE] 9/26/2016
[MANUFAC] Leotek Electronics USA, LLC
[LUMCAT] GCJ0-15H-MV-CW-5-XX-700
[LUMINAIRE] 18.25"L. X 9.5"W. X 4.5"H. LED STREET LIGHT
[BALLASTCAT] LITEON PA-1600-31SL
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[_INPUT] 120VAC, 35.14W
[_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4238
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	35.14
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1812
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	1812
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	53 (1.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604014.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	238.6	N.A.	5.6
FM - Front-Medium (30-60)	1047.2	N.A.	24.7
FH - Front-High (60-80)	826.5	N.A.	19.5
FVH - Front-Very High (80-90)	6.9	N.A.	0.2
BL - Back-Low (0-30)	238.6	N.A.	5.6
BM - Back-Medium (30-60)	1047.2	N.A.	24.7
BH - Back-High (60-80)	826.5	N.A.	19.5
BVH - Back-Very High (80-90)	6.9	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4238.4	N.A.	100.0
BUG Rating	B2-U0-G1		

ZONAL LUMEN SUMMARY

Zone	%
0-20	4.4
0-30	11.3
0-40	21.8
0-60	60.7
0-80	99.7
0-90	100
10-90	99
20-40	17.4
20-50	32.3
40-70	69.6
60-80	39
70-80	8.3
80-90	0.3
90-110	0
90-120	0
90-130	0
90-150	0
90-180	0
110-180	0
0-180	100

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604014.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	10	15	20	25	30	35	40	45
0.0	400	400	400	400	400	400	400	400	400	400
0.5	401	401	401	401	401	401	401	401	400	401
1.0	402	402	402	402	402	402	402	402	401	402
1.5	403	403	403	403	403	403	404	404	402	403
2.0	404	404	404	404	404	405	405	405	403	404
2.5	406	406	406	406	406	406	407	407	405	406
3.0	408	408	408	408	408	408	409	409	407	408
3.5	410	411	410	410	410	411	411	412	409	411
4.0	413	414	413	413	413	413	414	414	412	413
4.5	416	417	416	415	416	416	416	417	415	416
5.0	419	420	419	418	419	419	419	420	418	420
5.5	424	424	422	421	422	422	422	424	422	424
6.0	428	428	426	425	426	426	426	428	426	427
6.5	432	431	429	429	430	430	430	431	430	431
7.0	436	435	432	432	433	434	433	435	434	435
7.5	441	438	435	435	437	437	437	439	438	439
8.0	445	442	439	439	440	442	441	442	442	443
8.5	450	447	443	442	444	446	445	446	447	447
9.0	455	452	446	445	448	450	449	450	452	452
9.5	460	456	450	449	453	456	455	455	457	456
10.0	464	460	455	454	457	460	459	459	462	461
10.5	468	464	459	458	461	465	464	463	467	466
11.0	472	468	463	462	465	469	469	468	472	471
11.5	476	472	467	466	469	473	474	473	477	477
12.0	481	477	471	470	473	477	480	479	483	483
12.5	485	482	475	474	477	482	485	485	488	489
13.0	488	486	480	480	482	487	490	490	494	495
13.5	492	490	485	484	486	491	495	495	499	501
14.0	496	494	489	489	491	496	500	501	506	508
14.5	500	498	494	493	495	500	507	507	512	514
15.0	504	502	498	498	500	506	512	513	517	521
15.5	509	507	503	503	506	511	517	518	523	527
16.0	513	512	508	508	511	515	523	524	530	534
16.5	518	516	512	513	516	520	528	530	537	540
17.0	522	521	516	518	521	525	534	537	543	546
17.5	526	526	521	523	526	530	539	543	549	552
18.0	531	531	526	528	531	537	545	549	555	558
18.5	537	536	530	534	537	542	551	555	562	565
19.0	542	541	536	539	543	548	556	562	568	571
19.5	547	546	541	544	549	553	563	568	574	577
20.0	552	551	546	549	554	559	569	574	580	583
20.5	557	556	552	554	561	567	574	581	586	590
21.0	563	561	558	561	568	573	580	588	593	596
21.5	568	566	564	566	574	580	586	595	600	602
22.0	573	570	570	572	581	586	593	602	606	609
22.5	578	575	575	577	588	594	599	609	613	616
23.0	583	579	580	583	594	600	606	617	622	624
23.5	588	584	585	589	599	606	612	625	630	632
24.0	593	589	591	594	605	613	621	632	638	640
24.5	597	593	595	600	611	620	628	640	648	649
25.0	602	598	600	605	617	626	634	648	657	659
25.5	606	602	604	609	622	631	641	656	667	670
26.0	609	605	609	614	627	637	648	664	678	681

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604014.IES

CANDELA TABULATION - (Cont.)

26.5	613	609	613	619	632	643	654	673	688	692
27.0	617	613	619	623	636	649	659	680	699	704
27.5	621	618	623	627	641	654	665	687	708	714
28.0	624	621	627	631	646	658	671	693	714	722
28.5	627	624	631	635	650	663	676	699	720	730
29.0	630	627	634	638	654	667	680	704	726	736
29.5	633	630	637	643	658	672	685	709	731	741
30.0	635	632	641	646	662	676	689	714	736	746
30.5	637	635	644	650	665	679	693	718	739	749
31.0	640	638	647	653	670	682	698	721	742	753
31.5	643	640	650	656	673	686	702	726	745	755
32.0	644	644	652	660	676	689	705	729	747	757
32.5	646	646	654	663	680	692	709	732	750	759
33.0	648	649	657	665	683	695	713	735	753	760
33.5	650	652	659	667	686	700	716	738	755	762
34.0	652	655	661	671	689	703	720	741	757	763
34.5	654	657	663	673	692	706	725	743	759	765
35.0	656	660	665	676	695	709	728	746	761	766
35.5	659	663	668	680	699	712	731	748	763	768
36.0	662	666	672	684	702	715	734	750	765	771
36.5	665	671	675	688	704	718	737	753	767	773
37.0	668	674	678	693	707	721	740	755	769	776
37.5	672	677	682	698	711	725	743	758	771	779
38.0	676	680	686	702	714	728	746	761	774	782
38.5	680	684	690	706	717	732	750	764	777	785
39.0	684	688	694	709	720	735	754	767	781	787
39.5	688	691	699	713	725	739	757	770	784	790
40.0	693	695	704	717	728	743	760	774	788	794
40.5	699	701	708	721	732	747	764	777	792	797
41.0	704	705	713	727	736	752	768	782	796	801
41.5	710	710	718	731	741	756	771	787	800	805
42.0	715	715	723	736	745	761	776	791	805	810
42.5	722	721	730	741	752	766	781	796	811	815
43.0	731	729	737	748	758	772	786	801	816	820
43.5	739	737	745	756	766	780	792	807	822	826
44.0	748	745	753	763	773	787	798	813	828	832
44.5	757	754	762	771	782	794	804	820	836	840
45.0	766	763	770	780	791	802	812	827	843	847
45.5	775	772	780	789	800	814	822	836	852	855
46.0	785	782	790	799	811	825	832	846	862	865
46.5	794	792	799	810	821	837	843	856	872	875
47.0	803	801	810	820	832	849	855	868	882	886
47.5	814	812	820	830	844	862	868	879	895	899
48.0	822	822	830	841	856	874	881	894	909	913
48.5	831	831	842	852	868	887	896	909	924	929
49.0	841	842	852	864	881	901	911	926	940	946
49.5	851	853	864	875	894	916	927	944	957	963
50.0	862	865	876	887	908	930	944	961	976	982
50.5	875	878	891	902	923	947	962	982	998	1004
51.0	890	893	905	918	939	964	981	1004	1020	1028
51.5	905	908	920	933	956	982	1001	1026	1044	1051
52.0	920	924	935	950	974	1001	1021	1048	1069	1076
52.5	935	939	951	966	991	1020	1043	1072	1095	1102
53.0	952	956	968	986	1012	1042	1068	1098	1124	1131
53.5	967	974	986	1006	1033	1065	1093	1125	1154	1163
54.0	983	990	1004	1027	1054	1088	1119	1152	1184	1194

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604014.IES

CANDELA TABULATION - (Cont.)

54.5	999	1006	1020	1046	1074	1111	1146	1181	1215	1226
55.0	1012	1020	1035	1064	1095	1133	1173	1210	1247	1259
55.5	1021	1031	1046	1080	1117	1159	1203	1241	1280	1294
56.0	1030	1039	1056	1094	1137	1184	1233	1274	1314	1330
56.5	1035	1045	1064	1104	1152	1208	1263	1309	1350	1367
57.0	1039	1049	1070	1113	1165	1231	1293	1344	1388	1403
57.5	1040	1049	1070	1118	1174	1251	1322	1381	1424	1441
58.0	1039	1048	1070	1120	1180	1266	1349	1415	1460	1477
58.5	1038	1046	1069	1121	1185	1277	1371	1448	1496	1514
59.0	1037	1045	1068	1122	1190	1284	1389	1478	1532	1550
59.5	1039	1046	1069	1121	1191	1285	1401	1505	1565	1585
60.0	1042	1049	1070	1121	1190	1285	1412	1529	1597	1618
60.5	1048	1056	1076	1123	1187	1285	1419	1546	1628	1650
61.0	1056	1064	1085	1126	1186	1285	1423	1557	1654	1682
61.5	1066	1074	1094	1133	1191	1284	1418	1558	1669	1710
62.0	1077	1087	1104	1141	1197	1284	1412	1556	1679	1736
62.5	1093	1101	1119	1151	1205	1285	1405	1555	1689	1757
63.0	1107	1116	1132	1162	1213	1287	1399	1552	1694	1774
63.5	1115	1124	1142	1171	1222	1291	1395	1545	1688	1784
64.0	1118	1128	1148	1177	1228	1295	1391	1536	1678	1788
64.5	1114	1124	1145	1175	1229	1301	1393	1528	1671	1780
65.0	1105	1116	1138	1168	1226	1302	1394	1520	1663	1768
65.5	1094	1104	1126	1155	1217	1292	1389	1508	1655	1759
66.0	1080	1089	1110	1140	1202	1279	1380	1495	1643	1748
66.5	1058	1068	1088	1120	1181	1261	1363	1482	1626	1729
67.0	1033	1043	1063	1096	1157	1238	1342	1467	1604	1705
67.5	1004	1016	1035	1067	1126	1209	1318	1445	1581	1672
68.0	972	986	1005	1036	1092	1176	1290	1420	1555	1635
68.5	941	956	977	1008	1058	1139	1254	1390	1525	1597
69.0	903	918	940	975	1021	1100	1213	1355	1491	1556
69.5	837	851	877	923	980	1062	1170	1311	1447	1505
70.0	759	773	803	861	930	1017	1123	1263	1400	1446
70.5	666	683	716	775	849	951	1073	1218	1355	1369
71.0	572	590	625	682	758	872	1013	1166	1302	1289
71.5	485	498	529	582	657	775	920	1100	1226	1219
72.0	403	413	439	485	557	673	817	1021	1138	1144
72.5	336	347	370	410	470	571	708	908	1022	1056
73.0	274	285	307	343	391	473	600	786	900	958
73.5	212	224	252	285	326	393	502	658	777	842
74.0	155	167	200	231	267	322	412	534	657	722
74.5	111	120	147	181	213	262	331	429	544	613
75.0	76	81	102	134	164	208	257	335	437	509
75.5	59	62	78	103	125	158	198	262	343	407
76.0	50	51	61	79	92	115	148	198	258	311
76.5	44	45	51	63	73	89	111	148	194	233
77.0	38	39	44	52	59	70	81	107	140	166
77.5	34	35	38	45	50	57	64	81	104	122
78.0	31	31	34	39	44	48	53	62	76	91
78.5	28	29	31	35	38	43	46	53	62	75
79.0	26	26	28	33	35	38	40	46	55	65
79.5	24	25	26	30	33	34	36	39	48	58
80.0	23	23	25	28	31	32	32	35	43	53
80.5	21	22	23	25	28	29	29	31	36	45
81.0	20	20	21	23	25	26	26	27	31	37
81.5	19	19	20	21	23	24	24	24	27	31
82.0	18	18	19	20	21	22	22	22	24	25

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604014.IES

CANDELA TABULATION - (Cont.)

82.5	17	18	18	19	20	20	20	21	21	21
83.0	16	17	17	18	18	18	19	19	19	18
83.5	15	16	16	16	17	17	17	17	16	15
84.0	15	15	15	15	16	16	15	15	15	13
84.5	13	13	13	13	15	13	13	13	12	11
85.0	12	12	13	13	13	13	12	12	11	10
85.5	11	12	12	12	12	12	11	11	10	9
86.0	11	11	11	11	11	11	11	10	9	9
86.5	10	10	10	11	11	10	10	9	9	8
87.0	9	9	10	10	10	10	9	9	8	8
87.5	9	9	9	9	9	9	9	8	8	7
88.0	7	7	7	8	8	8	7	7	6	6
88.5	6	6	6	6	6	6	6	5	5	5
89.0	4	4	4	4	4	4	4	4	4	4
89.5	2	2	2	2	2	2	2	2	2	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	400	400	400	400	400	400	400	400	400
0.5	401	401	401	401	401	401	401	401	401
1.0	402	403	402	402	402	402	402	402	403
1.5	404	404	404	403	404	404	404	404	404
2.0	406	406	405	405	405	405	405	406	406
2.5	407	408	407	406	407	407	407	408	408
3.0	410	411	409	408	409	409	410	410	410
3.5	412	413	411	410	411	412	412	412	412
4.0	415	416	414	413	414	414	415	415	414
4.5	418	419	416	415	417	417	417	417	417
5.0	421	422	419	418	419	420	420	420	420
5.5	426	426	422	421	422	424	424	424	424
6.0	429	430	427	426	426	427	428	428	427
6.5	433	433	430	429	430	430	431	431	431
7.0	437	437	434	433	433	433	434	435	434
7.5	440	440	438	437	437	437	438	438	438
8.0	444	444	441	441	440	440	441	442	441
8.5	448	448	445	445	444	444	444	445	445
9.0	454	453	449	449	448	447	448	449	449
9.5	458	457	455	454	452	452	452	453	454
10.0	462	461	459	458	456	456	456	457	458
10.5	467	466	464	462	461	460	460	461	461
11.0	472	471	469	467	465	464	464	465	465
11.5	477	476	474	471	469	469	468	468	469
12.0	483	482	480	476	473	473	472	472	473
12.5	489	487	485	482	479	477	476	476	476
13.0	494	493	490	486	484	482	481	481	481
13.5	500	498	496	491	488	487	486	486	486
14.0	506	503	501	496	493	491	490	490	490
14.5	512	510	507	501	498	496	495	495	494
15.0	518	515	513	507	503	500	499	499	498
15.5	523	521	518	512	509	506	504	503	503
16.0	529	526	523	517	514	511	509	509	509
16.5	536	532	528	523	518	515	514	513	513
17.0	542	539	534	528	523	520	519	518	518
17.5	547	545	540	534	528	525	524	522	522

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604014.IES

CANDELA TABULATION - (Cont.)

18.0	553	550	545	540	535	530	529	527	527
18.5	559	556	550	545	540	537	535	532	532
19.0	566	563	556	550	546	542	540	538	537
19.5	573	568	563	556	552	547	545	543	542
20.0	579	574	569	562	557	552	550	548	547
20.5	585	581	575	568	564	558	555	553	553
21.0	592	589	582	575	570	565	562	558	558
21.5	599	595	590	581	576	571	567	564	565
22.0	606	602	596	589	582	577	572	570	570
22.5	613	610	603	595	589	582	578	575	576
23.0	622	618	611	602	595	589	583	580	580
23.5	630	626	619	609	601	594	589	585	585
24.0	638	633	626	616	607	599	593	590	590
24.5	648	641	634	623	613	604	598	595	595
25.0	657	650	641	630	619	609	603	599	599
25.5	667	658	648	635	624	613	608	604	604
26.0	679	667	655	641	629	619	612	608	608
26.5	689	676	661	647	634	623	617	613	613
27.0	700	684	667	653	638	628	621	618	619
27.5	709	692	673	658	644	632	625	622	623
28.0	716	698	678	663	648	636	629	626	627
28.5	721	703	683	667	653	641	632	629	630
29.0	728	708	688	673	657	646	636	633	633
29.5	732	712	692	677	661	650	639	636	636
30.0	736	716	696	681	665	654	644	639	639
30.5	739	719	701	685	670	658	647	643	643
31.0	742	723	704	688	674	661	650	646	645
31.5	744	727	708	692	678	665	653	649	648
32.0	746	730	711	695	681	668	656	651	650
32.5	748	733	715	699	685	672	659	654	652
33.0	750	736	719	703	689	675	662	656	654
33.5	754	739	723	706	692	678	665	658	657
34.0	756	742	728	710	696	681	667	661	659
34.5	759	745	732	713	700	684	671	663	661
35.0	762	748	735	717	704	687	674	665	663
35.5	764	752	739	720	707	690	677	668	666
36.0	767	755	741	725	710	693	681	672	670
36.5	770	758	744	728	713	698	684	675	673
37.0	773	761	747	732	716	701	688	678	676
37.5	775	764	750	735	720	704	691	682	679
38.0	779	767	753	739	723	708	695	685	683
38.5	782	770	756	742	728	711	699	689	687
39.0	785	774	759	745	731	715	703	693	691
39.5	788	777	762	749	735	719	707	699	696
40.0	791	781	766	753	739	723	711	703	701
40.5	795	785	769	757	743	728	715	708	707
41.0	799	789	774	761	747	732	719	714	713
41.5	803	793	779	765	753	737	725	719	719
42.0	808	797	784	770	757	742	730	726	726
42.5	812	801	789	775	762	747	735	732	733
43.0	817	807	794	781	768	754	742	739	740
43.5	822	813	801	788	775	760	749	747	748
44.0	828	819	808	795	783	767	758	756	756
44.5	835	825	815	802	790	774	766	764	764
45.0	842	832	823	811	798	783	774	772	773
45.5	851	842	832	820	807	792	783	781	782

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604014.IES

CANDELA TABULATION - (Cont.)

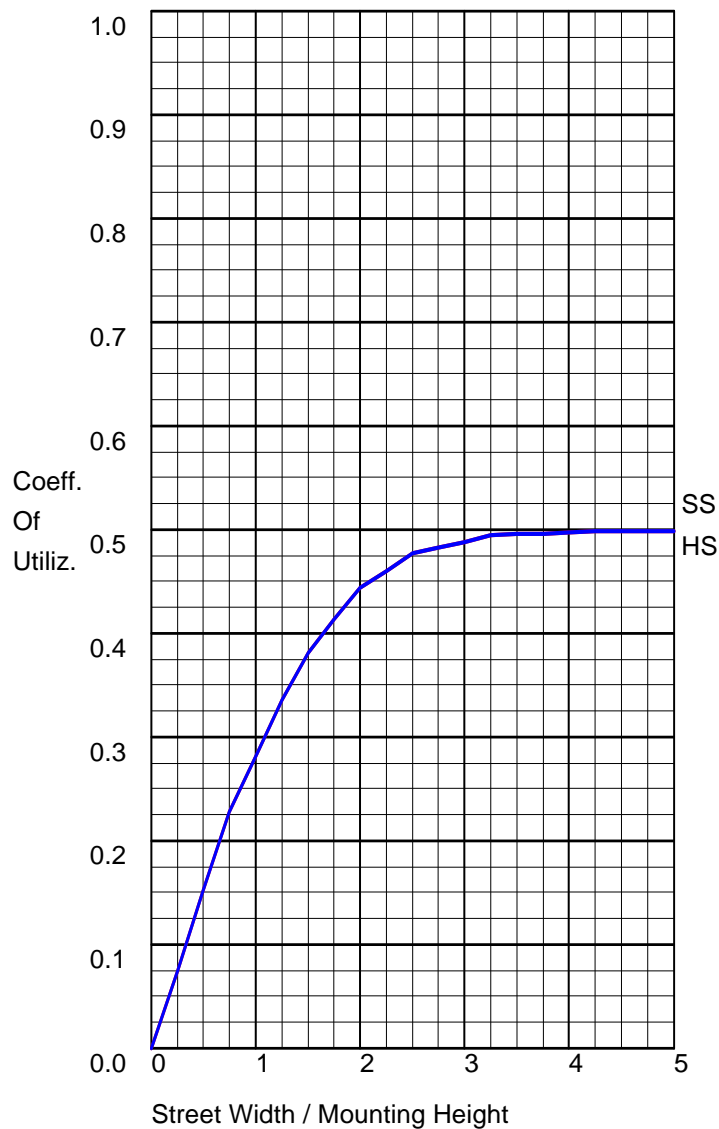
46.0	861	852	843	830	816	801	792	789	790
46.5	871	863	854	842	826	812	802	798	799
47.0	881	873	866	852	836	822	812	808	808
47.5	894	885	877	865	847	834	822	817	817
48.0	908	899	891	877	858	845	832	827	826
48.5	924	913	904	891	871	857	844	838	837
49.0	939	928	919	904	884	869	855	849	847
49.5	957	944	933	919	898	881	867	861	857
50.0	976	961	950	934	912	895	879	872	869
50.5	996	980	967	951	929	910	894	886	883
51.0	1019	1001	985	967	947	926	908	901	897
51.5	1042	1022	1005	986	964	941	924	916	912
52.0	1067	1044	1025	1005	983	958	940	931	928
52.5	1093	1068	1045	1023	1003	975	957	947	944
53.0	1122	1094	1069	1045	1023	993	975	964	961
53.5	1152	1122	1094	1068	1044	1013	993	982	980
54.0	1182	1150	1119	1091	1066	1033	1012	1000	999
54.5	1214	1179	1145	1114	1088	1053	1031	1017	1017
55.0	1247	1209	1172	1138	1110	1072	1050	1036	1035
55.5	1282	1242	1200	1164	1131	1094	1070	1055	1054
56.0	1317	1277	1229	1189	1154	1115	1090	1073	1071
56.5	1354	1310	1258	1213	1177	1137	1110	1093	1090
57.0	1390	1344	1288	1238	1199	1157	1129	1113	1109
57.5	1426	1380	1318	1264	1224	1179	1149	1132	1128
58.0	1462	1414	1348	1290	1248	1201	1170	1152	1148
58.5	1498	1448	1377	1316	1271	1224	1191	1172	1168
59.0	1534	1481	1406	1342	1292	1247	1211	1192	1186
59.5	1569	1514	1439	1368	1315	1267	1232	1212	1207
60.0	1603	1547	1471	1392	1337	1288	1252	1231	1226
60.5	1635	1577	1498	1415	1358	1308	1273	1252	1248
61.0	1664	1605	1524	1436	1377	1327	1293	1272	1267
61.5	1691	1629	1546	1456	1397	1345	1313	1290	1286
62.0	1716	1650	1566	1476	1416	1363	1330	1305	1300
62.5	1739	1671	1585	1496	1432	1378	1338	1309	1303
63.0	1760	1691	1601	1513	1445	1386	1338	1304	1294
63.5	1780	1709	1613	1527	1449	1374	1315	1276	1265
64.0	1797	1722	1622	1533	1443	1351	1283	1238	1227
64.5	1807	1729	1628	1523	1413	1308	1235	1190	1176
65.0	1812	1731	1626	1500	1372	1256	1183	1138	1125
65.5	1808	1732	1608	1456	1318	1196	1132	1095	1086
66.0	1797	1724	1577	1401	1260	1136	1086	1057	1050
66.5	1775	1697	1515	1335	1206	1095	1055	1030	1023
67.0	1742	1654	1444	1266	1154	1058	1026	1003	998
67.5	1690	1572	1368	1209	1108	1022	991	967	962
68.0	1628	1478	1293	1155	1063	986	954	929	924
68.5	1551	1384	1233	1107	1019	945	911	890	884
69.0	1466	1290	1175	1058	974	899	866	845	841
69.5	1368	1202	1113	1007	922	848	815	793	787
70.0	1269	1118	1048	952	865	792	757	732	725
70.5	1178	1048	978	889	795	723	681	652	643
71.0	1093	981	901	819	719	650	599	566	553
71.5	1033	910	808	732	632	561	504	470	457
72.0	975	837	711	639	543	470	413	378	364
72.5	905	747	623	542	453	387	335	306	294
73.0	828	657	537	446	368	311	267	243	233
73.5	730	573	449	360	304	260	217	192	184

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604014.IES

CANDELA TABULATION - (Cont.)

74.0	628	490	367	282	249	215	174	147	140
74.5	537	407	297	228	201	171	133	109	103
75.0	446	327	235	183	158	132	97	76	73
75.5	353	260	186	142	121	101	74	59	57
76.0	265	200	145	108	90	76	57	48	47
76.5	199	154	111	83	71	60	47	40	39
77.0	146	116	84	65	56	50	40	35	35
77.5	111	91	69	54	47	42	34	31	30
78.0	84	73	57	47	39	36	30	27	27
78.5	69	61	49	40	34	32	27	24	24
79.0	59	53	43	36	31	28	24	22	21
79.5	53	47	38	33	28	25	21	20	19
80.0	49	42	35	30	25	22	19	18	18
80.5	42	35	30	26	22	19	17	17	16
81.0	35	30	26	23	20	17	16	15	15
81.5	29	26	23	20	17	15	13	13	13
82.0	25	23	20	17	16	13	13	12	12
82.5	21	20	18	16	13	12	12	12	12
83.0	18	18	15	13	12	11	11	11	11
83.5	16	15	13	11	11	10	10	10	11
84.0	13	12	11	10	10	10	10	10	10
84.5	11	11	10	10	9	9	9	10	10
85.0	10	10	9	9	9	9	9	9	10
85.5	9	9	9	9	9	9	8	9	9
86.0	8	8	8	8	8	8	8	8	9
86.5	8	8	8	8	8	8	8	8	8
87.0	7	7	8	8	8	8	7	7	7
87.5	7	7	7	7	7	7	7	7	7
88.0	6	6	6	6	6	6	6	6	6
88.5	5	5	5	5	5	5	5	4	4
89.0	3	3	4	3	4	3	3	3	3
89.5	2	2	2	2	2	2	2	2	2
90.0	0	0	0	0	0	0	0	0	0

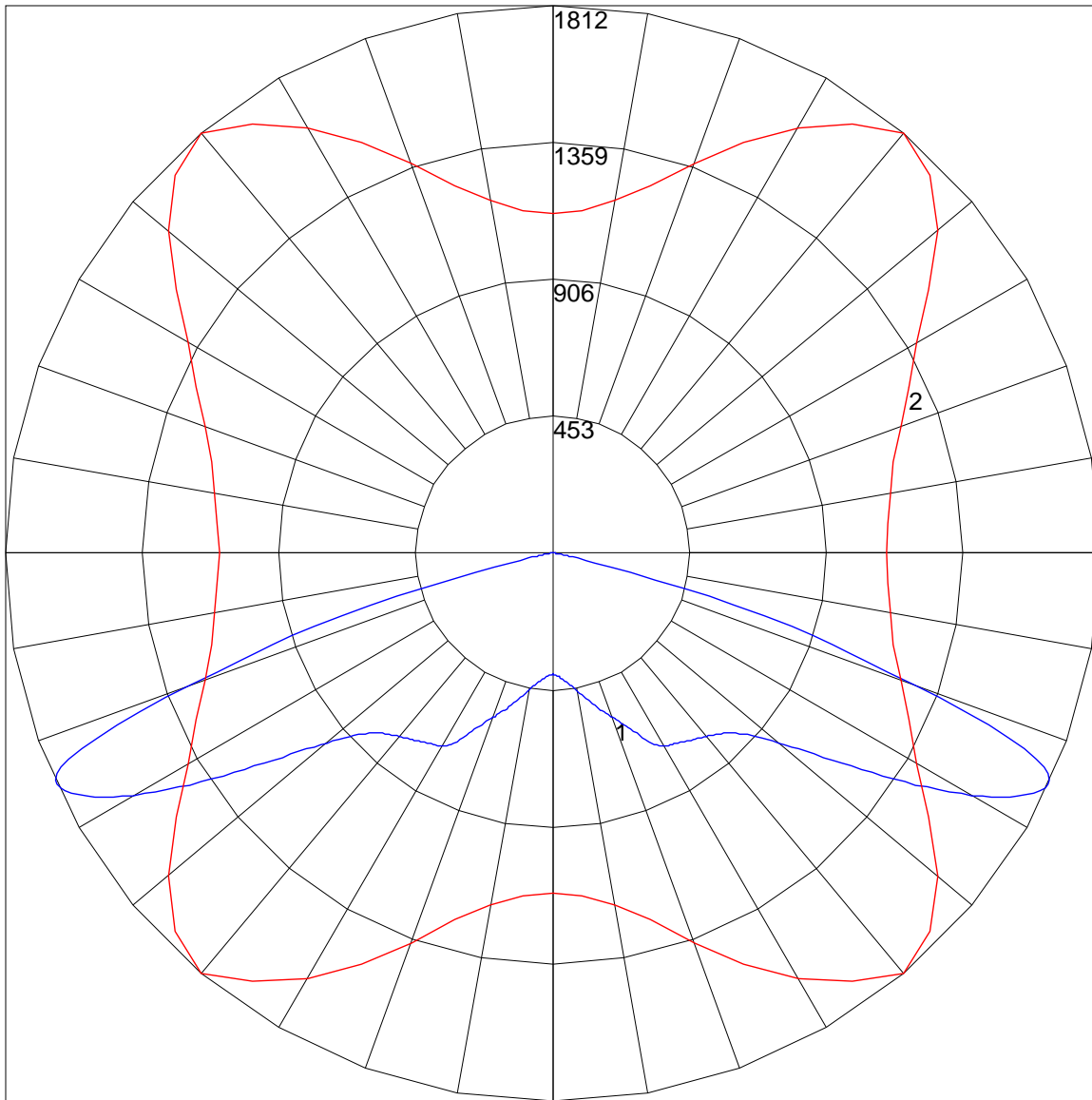
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

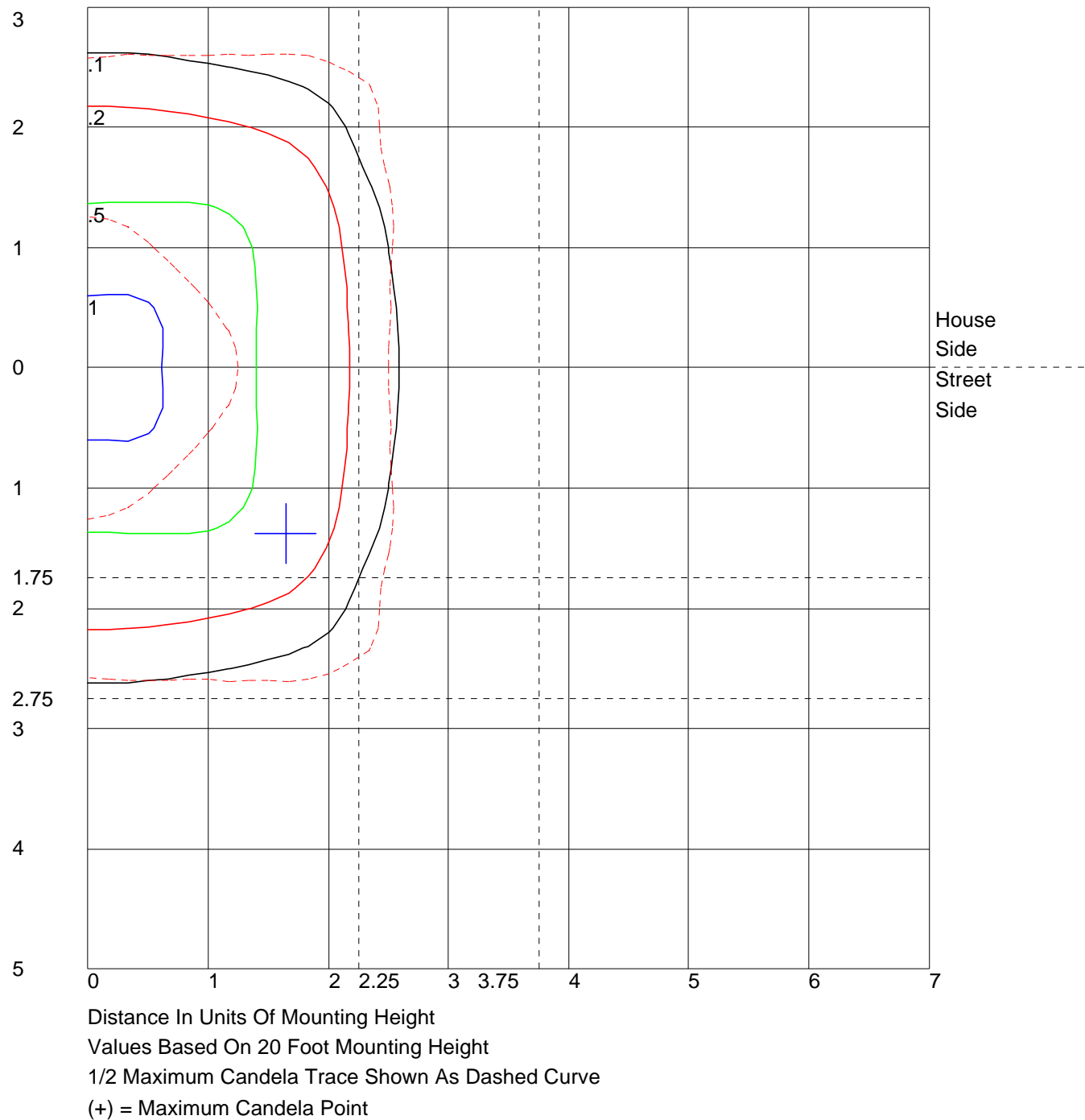
	Lumens	Percent Of Luminaire
Downward Street Side	2119.2	50.0
Downward House Side	2119.2	50.0
Downward Total	4238.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4238.4	100.0

POLAR GRAPH

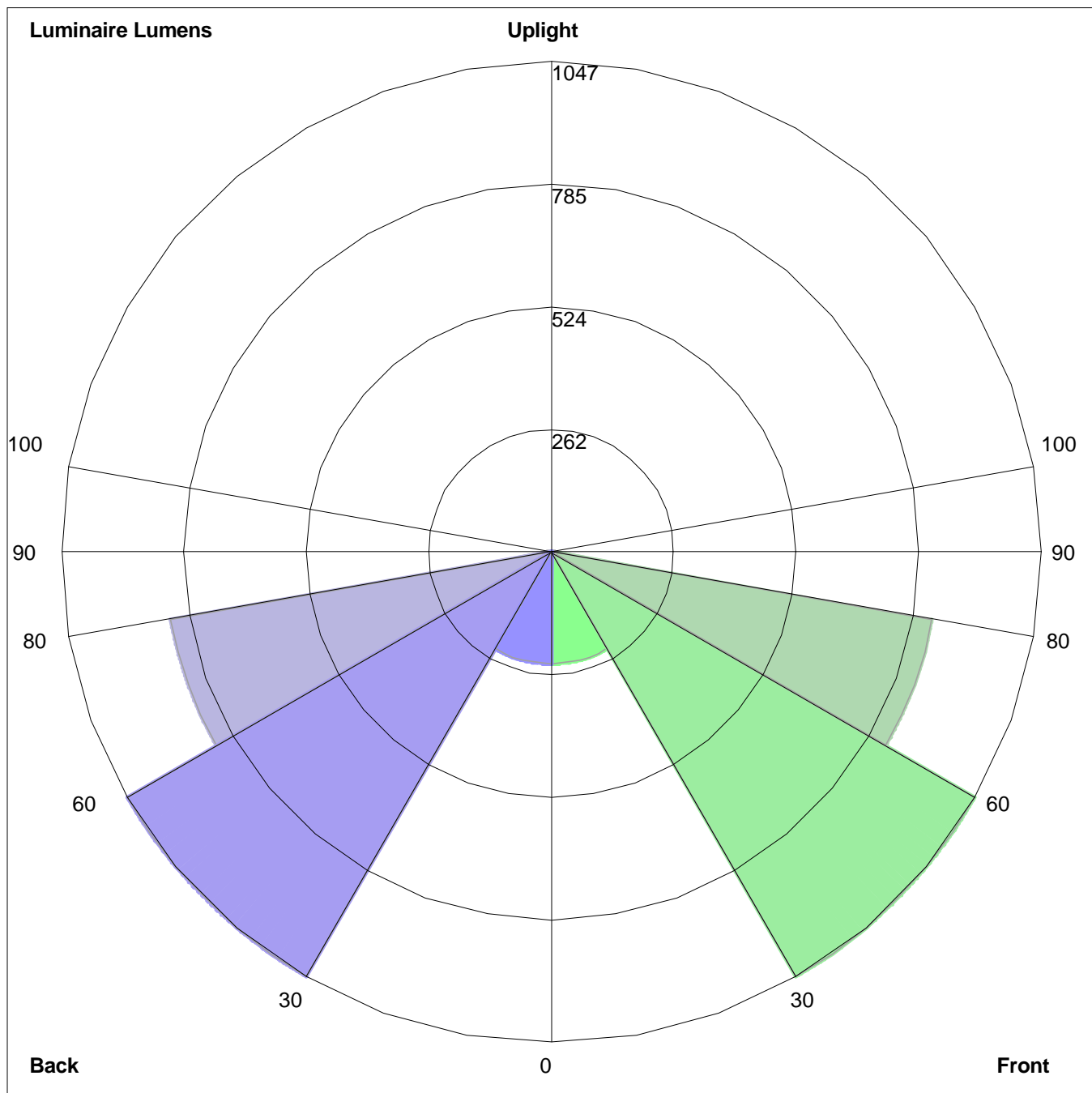


Maximum Candela = 1812 Located At Horizontal Angle = 50, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=238.6, Medium=1047.2, High=826.5, Very High=6.9
Back: Low=238.6, Medium=1047.2, High=826.5, Very High=6.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1