



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

Report No: L091604012R02

Date: 11/3/2016



NVLAP LAB CODE 200927-0

Report No: L091604012R02

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

Model Number: GCJ0-15H-MV-CW-3-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-3-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: 9/22/16 - 9/22/16

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-3-XX-700	
Driver Model Number:	LITEON PA-1600-31SL	
Total Lumens:	4191.20	
Input Voltage (VAC/60Hz):	120.00	
Input Current (Amp):	0.30	
Input Power (W):	35.06	
Input Power Factor:	0.99	
Current ATHD @ 120V(%):	11%	
Current ATHD @ 277V(%):	15% (0.13A, 34.27W, 0.93PF)	
Efficacy:	120	
Color Rendering Index (CRI):	72	
Correlated Color Temperature (K):	4845	
Chromaticity Coordinate x:	0.3508	
Chromaticity Coordinate y:	0.3651	
Ambient Temperature (°C):	25.0	
Stabilization Time (Hours):	0:30	
Total Operating Time (Hours):	3:30	
Off State Power(W):	0.00	

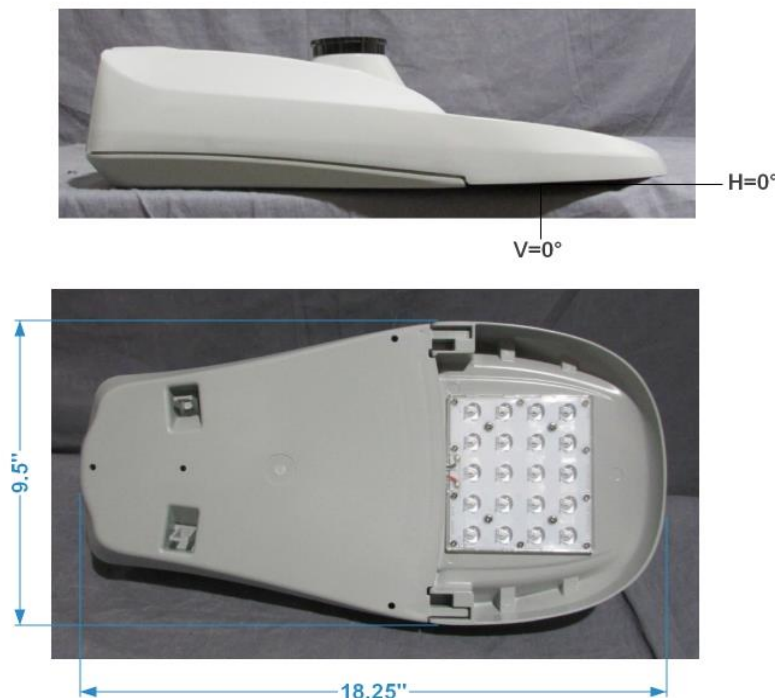
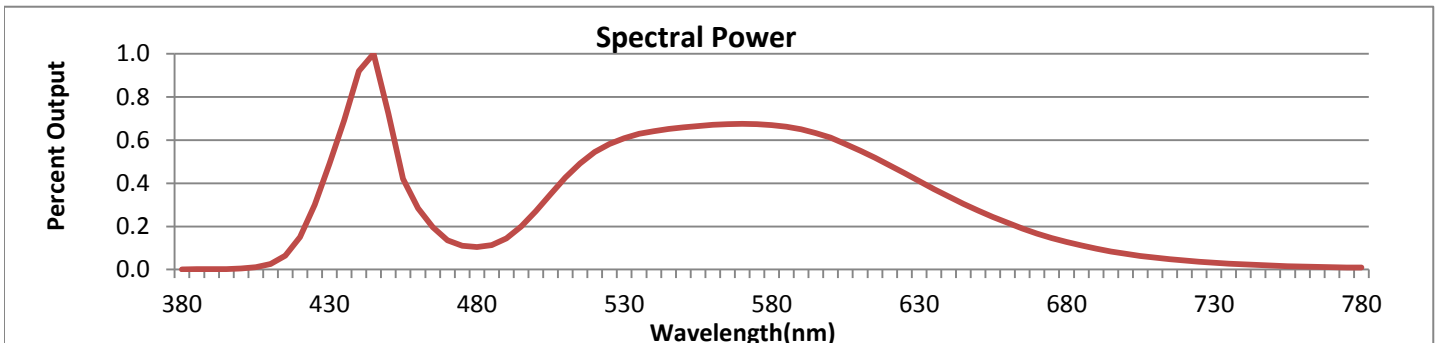


FIG. 1 LUMINAIRE



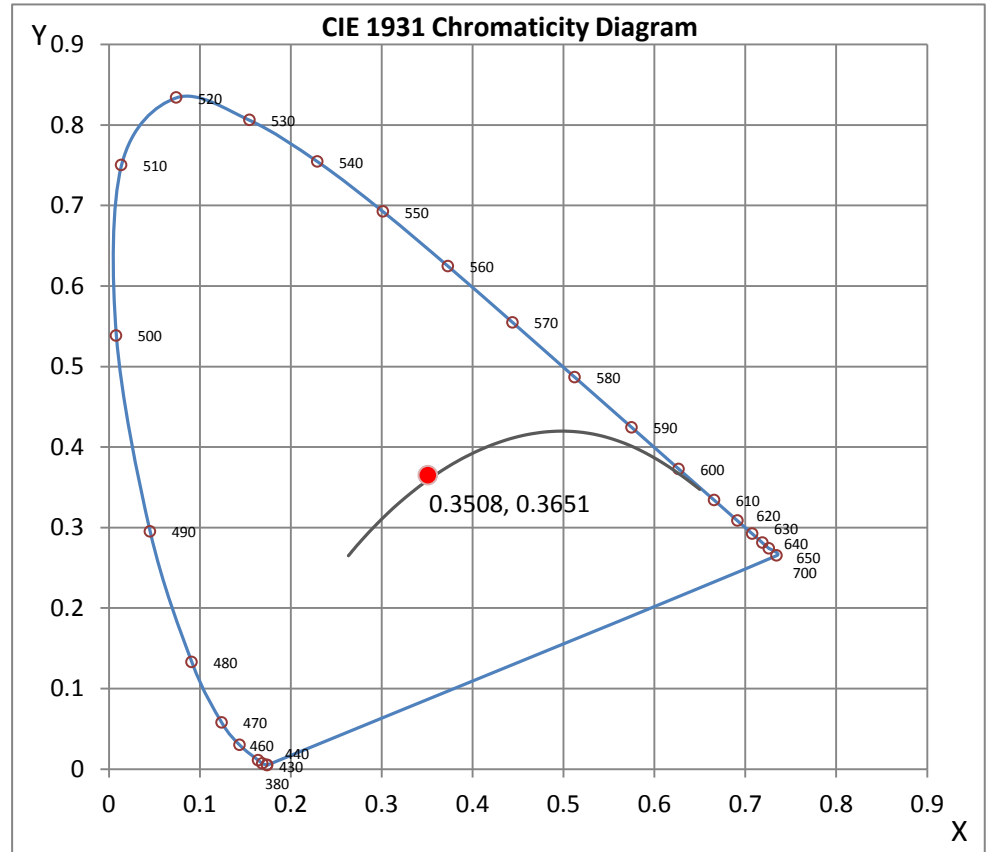
Wavelength	W/m ² nm	440	0.9208	510	0.4258	580	0.6703	650	0.2738	720	0.0417
380	0.0012	450	0.7249	520	0.5445	590	0.6501	660	0.2165	730	0.0315
390	0.0017	460	0.2834	530	0.6093	600	0.6112	670	0.1672	740	0.0239
400	0.0047	470	0.1353	540	0.6422	610	0.5516	680	0.1279	750	0.0183
410	0.0254	480	0.1038	550	0.6595	620	0.4830	690	0.0967	760	0.0140
420	0.1507	490	0.1442	560	0.6717	630	0.4095	700	0.0730	770	0.0106
430	0.4905	500	0.2708	570	0.6758	640	0.3392	710	0.0548	780	0.0094

CRI & CCT

x	0.3508
y	0.3651
u'	0.2101
v'	0.4919
CRI	71.70
CCT	4845
Duv	0.00444

R Values

R1	69.94
R2	74.99
R3	79.58
R4	73.68
R5	70.33
R6	66.62
R7	79.77
R8	58.77
R9	-23.95
R10	41.47
R11	72.26
R12	45.23
R13	69.79
R14	88.05





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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: 24*

**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 : L091604012R01.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L091604012R01
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUEDATE] 9/27/2016
[MANUFAC] Leotek Electronics USA, LLC
[LUMCAT] GCJ0-15H-MV-CW-3-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, 35.06W
[_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4191
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	35.06
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2600
Maximum Candela Angle	45H 67V
Maximum Candela (<90 Degrees Vertical)	2600
Maximum Candela Angle (<90 Degrees Vertical)	45H 67V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	139 (3.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	249.2	N.A.	5.9
FM - Front-Medium (30-60)	1212.2	N.A.	28.9
FH - Front-High (60-80)	1258.1	N.A.	30.0
FVH - Front-Very High (80-90)	12.4	N.A.	0.3
BL - Back-Low (0-30)	248.9	N.A.	5.9
BM - Back-Medium (30-60)	865.1	N.A.	20.6
BH - Back-High (60-80)	339.1	N.A.	8.1
BVH - Back-Very High (80-90)	6.3	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	4191.3	N.A.	100.0
BUG Rating	B1-U0-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	10	15	20	25	30	35	40	45
0.0	414	414	414	414	414	414	414	414	414	414
0.5	414	414	413	412	412	413	412	412	412	412
1.0	415	413	412	409	410	411	411	410	410	409
1.5	416	413	410	407	408	410	409	408	408	407
2.0	416	412	409	404	406	409	407	406	406	405
2.5	416	412	408	402	404	407	405	404	404	403
3.0	415	411	406	402	403	406	404	403	403	402
3.5	413	409	405	402	402	404	402	402	402	402
4.0	411	408	403	402	402	403	401	402	402	402
4.5	409	407	402	402	402	401	400	402	402	402
5.0	407	406	401	403	402	400	400	402	402	402
5.5	406	406	400	403	402	400	400	402	403	404
6.0	406	406	401	404	403	401	401	403	404	405
6.5	406	406	401	405	404	401	402	404	406	407
7.0	407	407	402	406	405	402	403	406	408	410
7.5	408	408	403	407	407	404	405	408	411	412
8.0	409	409	405	409	409	406	407	411	414	415
8.5	411	411	407	412	412	409	411	414	417	419
9.0	414	414	410	414	415	412	414	418	420	424
9.5	416	416	413	417	418	415	418	421	425	428
10.0	419	419	417	421	422	419	422	427	429	432
10.5	424	422	421	426	427	424	428	432	434	438
11.0	427	427	427	431	432	429	433	437	440	444
11.5	431	431	432	435	437	434	439	443	445	450
12.0	435	435	438	440	442	440	445	448	452	457
12.5	440	440	443	446	448	446	450	455	458	464
13.0	444	444	449	452	454	453	457	462	465	472
13.5	449	449	455	458	461	459	464	468	472	480
14.0	455	455	461	464	467	466	470	475	481	488
14.5	460	460	467	470	473	473	477	483	488	496
15.0	466	466	473	477	481	481	484	489	496	504
15.5	472	472	481	485	487	488	492	497	503	513
16.0	479	479	487	492	494	496	499	504	512	521
16.5	485	485	494	499	500	503	508	512	520	529
17.0	492	492	501	507	508	512	516	520	528	539
17.5	499	499	509	515	515	519	524	527	537	547
18.0	507	507	516	521	522	527	531	536	545	556
18.5	515	515	523	528	529	536	539	543	553	565
19.0	523	523	531	536	537	543	546	551	562	574
19.5	532	531	540	543	545	551	553	559	571	582
20.0	541	540	548	550	552	559	561	567	579	591
20.5	549	549	556	558	561	568	569	575	588	599
21.0	557	558	565	567	569	576	576	583	596	607
21.5	567	568	573	574	577	584	583	591	603	616
22.0	575	577	581	582	585	593	592	599	611	624
22.5	583	586	591	591	594	600	599	607	620	631
23.0	592	596	599	600	603	608	607	616	627	638
23.5	600	606	607	608	611	616	616	625	635	646
24.0	609	616	617	617	621	623	623	633	643	653
24.5	618	626	625	626	629	630	631	643	651	659
25.0	626	635	634	634	637	637	639	651	658	666
25.5	635	645	643	643	647	646	648	659	665	673
26.0	645	654	652	650	655	653	656	666	673	680

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION - (Cont.)

26.5	654	663	661	658	663	660	663	675	681	687
27.0	663	672	670	666	672	668	672	682	688	693
27.5	672	681	679	674	680	676	680	689	695	701
28.0	680	690	687	682	687	683	687	696	703	707
28.5	688	699	695	690	695	690	695	704	710	713
29.0	696	708	704	698	703	698	703	710	718	719
29.5	705	716	712	706	710	706	710	717	726	726
30.0	713	726	720	713	717	713	718	723	733	731
30.5	721	733	729	720	725	720	726	731	739	736
31.0	730	741	737	728	732	728	732	737	745	741
31.5	738	748	745	735	740	735	739	743	752	746
32.0	746	757	754	742	747	742	746	750	758	752
32.5	755	764	761	749	755	749	753	757	763	757
33.0	763	771	767	757	761	756	759	762	768	761
33.5	771	777	773	764	767	763	765	767	773	765
34.0	779	784	780	771	773	769	771	772	777	770
34.5	787	791	785	777	780	775	776	777	783	774
35.0	794	797	790	785	785	782	783	782	787	779
35.5	801	802	795	791	790	787	788	787	791	783
36.0	808	808	800	796	795	793	794	791	795	787
36.5	814	813	804	801	799	799	799	796	799	791
37.0	820	817	809	807	804	804	805	800	804	795
37.5	826	822	813	812	809	811	811	805	809	800
38.0	830	825	817	816	813	815	816	811	814	805
38.5	835	829	821	820	817	820	821	816	819	811
39.0	839	832	825	824	821	824	825	821	824	816
39.5	843	837	829	828	824	828	830	826	829	822
40.0	847	840	834	832	828	832	836	831	835	827
40.5	851	844	838	837	832	837	841	838	839	831
41.0	854	847	842	842	837	841	846	844	843	836
41.5	858	851	847	847	842	844	851	850	847	839
42.0	863	855	852	852	846	848	856	857	852	844
42.5	867	861	857	857	851	853	864	866	857	848
43.0	871	866	865	865	858	859	872	874	865	854
43.5	875	872	873	872	866	866	881	884	874	862
44.0	880	878	880	879	874	873	892	895	882	869
44.5	886	884	890	887	882	880	903	905	893	876
45.0	894	893	899	896	891	890	914	918	904	885
45.5	903	901	907	905	900	899	928	931	918	896
46.0	913	910	918	916	909	909	943	946	932	908
46.5	926	922	928	926	920	921	958	961	949	921
47.0	939	933	939	938	931	932	974	978	965	933
47.5	955	949	953	951	943	946	990	994	983	948
48.0	977	971	971	966	956	961	1007	1013	1006	962
48.5	1001	994	990	983	971	978	1025	1033	1029	978
49.0	1027	1021	1012	1002	987	995	1043	1054	1053	994
49.5	1055	1049	1036	1021	1004	1014	1062	1074	1077	1011
50.0	1085	1082	1062	1044	1023	1033	1082	1096	1102	1029
50.5	1122	1120	1097	1074	1048	1055	1103	1118	1127	1047
51.0	1163	1163	1136	1107	1075	1077	1126	1142	1152	1067
51.5	1203	1204	1174	1141	1104	1102	1150	1166	1177	1088
52.0	1244	1247	1213	1176	1136	1128	1175	1191	1203	1109
52.5	1283	1287	1254	1214	1171	1157	1201	1217	1228	1129
53.0	1318	1322	1292	1259	1217	1194	1231	1246	1251	1151
53.5	1353	1356	1331	1306	1265	1233	1263	1277	1274	1173
54.0	1384	1387	1368	1351	1315	1275	1298	1308	1298	1196

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION - (Cont.)

54.5	1415	1417	1403	1397	1365	1318	1333	1341	1321	1220
55.0	1442	1445	1437	1440	1415	1364	1370	1376	1346	1244
55.5	1460	1468	1463	1473	1463	1418	1415	1415	1373	1271
56.0	1477	1488	1485	1502	1507	1474	1463	1456	1401	1299
56.5	1491	1506	1506	1528	1542	1528	1513	1502	1433	1328
57.0	1504	1522	1524	1553	1576	1579	1566	1549	1467	1360
57.5	1519	1537	1541	1576	1604	1624	1621	1599	1505	1398
58.0	1534	1553	1559	1596	1631	1665	1676	1649	1545	1438
58.5	1553	1570	1579	1616	1656	1700	1731	1705	1586	1472
59.0	1573	1587	1600	1634	1682	1731	1784	1764	1633	1509
59.5	1592	1606	1620	1652	1706	1761	1832	1825	1693	1559
60.0	1611	1624	1641	1672	1731	1790	1876	1886	1758	1613
60.5	1628	1642	1661	1694	1751	1817	1914	1946	1826	1671
61.0	1643	1657	1679	1716	1771	1841	1948	2006	1895	1730
61.5	1658	1668	1697	1738	1790	1863	1981	2065	1965	1791
62.0	1668	1677	1711	1756	1808	1883	2009	2121	2038	1857
62.5	1672	1683	1720	1769	1825	1901	2031	2173	2123	1946
63.0	1672	1687	1726	1778	1837	1913	2050	2217	2207	2039
63.5	1670	1688	1728	1783	1841	1917	2064	2250	2284	2130
64.0	1664	1686	1727	1783	1840	1915	2071	2275	2354	2219
64.5	1656	1675	1720	1778	1834	1911	2070	2298	2415	2303
65.0	1641	1659	1705	1767	1822	1903	2063	2312	2467	2384
65.5	1614	1634	1681	1747	1802	1890	2047	2310	2500	2465
66.0	1574	1596	1643	1718	1775	1869	2025	2294	2518	2536
66.5	1503	1529	1583	1671	1739	1833	1995	2255	2511	2578
67.0	1413	1443	1505	1608	1690	1787	1959	2207	2492	2600
67.5	1291	1320	1395	1509	1614	1730	1916	2167	2465	2585
68.0	1147	1177	1263	1390	1518	1660	1862	2120	2424	2543
68.5	956	991	1085	1224	1380	1554	1781	2044	2351	2459
69.0	764	802	898	1045	1223	1426	1681	1949	2257	2353
69.5	614	645	720	863	1039	1256	1532	1820	2120	2220
70.0	488	508	561	690	854	1074	1368	1674	1963	2072
70.5	402	416	458	558	696	896	1197	1510	1792	1907
71.0	332	344	376	447	554	726	1022	1335	1607	1736
71.5	279	289	313	366	448	585	844	1138	1391	1563
72.0	236	243	263	302	360	464	675	939	1174	1391
72.5	200	207	225	256	299	379	542	759	987	1218
73.0	169	175	192	220	251	310	430	596	816	1049
73.5	135	140	158	190	220	267	357	481	667	900
74.0	105	109	128	164	196	234	300	388	539	761
74.5	89	93	106	141	174	204	256	327	446	633
75.0	79	82	89	120	157	181	222	279	373	521
75.5	71	73	80	108	141	162	196	245	322	442
76.0	64	66	74	97	128	146	174	218	280	378
76.5	58	60	65	87	116	132	155	193	248	325
77.0	53	55	59	79	105	118	138	171	221	278
77.5	49	51	55	72	94	106	122	152	193	241
78.0	46	47	51	65	85	94	109	133	168	208
78.5	43	44	48	60	77	85	97	115	145	181
79.0	40	40	45	55	70	76	85	100	126	156
79.5	37	38	42	50	61	67	75	86	106	131
80.0	34	35	38	45	54	59	66	74	89	108
80.5	30	31	34	39	47	52	58	63	76	90
81.0	27	27	30	35	40	46	50	55	63	75
81.5	23	24	26	30	35	39	43	47	53	61
82.0	20	20	23	26	30	33	36	40	45	50

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION - (Cont.)

82.5	17	17	19	22	26	28	31	34	36	40
83.0	13	13	16	18	21	23	25	28	30	32
83.5	10	10	12	15	17	18	20	22	24	25
84.0	7	8	9	10	12	13	16	17	19	20
84.5	5	6	6	7	8	9	11	12	13	16
85.0	3	4	4	5	6	6	7	9	10	11
85.5	2	3	3	4	4	5	6	7	8	10
86.0	2	2	3	3	4	4	5	6	7	9
86.5	1	2	2	3	3	4	5	6	7	8
87.0	1	1	2	3	3	4	5	6	7	8
87.5	1	1	2	3	3	4	5	6	7	8
88.0	1	1	2	2	3	3	4	5	6	7
88.5	1	1	2	2	3	3	4	4	5	6
89.0	1	1	1	2	2	2	3	3	4	4
89.5	1	1	1	1	1	1	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>	<u>95</u>
0.0	414	414	414	414	414	414	414	414	414	414
0.5	412	412	413	412	412	412	413	413	412	411
1.0	410	410	411	410	410	411	412	411	410	409
1.5	408	408	410	407	407	409	411	410	407	406
2.0	406	407	408	405	405	408	410	408	405	403
2.5	404	405	407	403	404	406	410	407	404	401
3.0	404	404	406	402	403	406	410	407	403	401
3.5	404	404	405	402	404	407	410	408	404	401
4.0	404	403	404	402	404	407	411	409	405	403
4.5	405	403	404	402	405	409	412	410	406	404
5.0	406	404	404	403	407	410	413	412	407	406
5.5	407	406	405	405	409	412	416	414	410	408
6.0	409	408	407	407	411	415	418	417	412	411
6.5	411	411	410	410	414	418	421	420	416	415
7.0	414	413	412	413	417	422	425	424	419	418
7.5	417	417	416	417	421	427	429	427	424	422
8.0	420	420	419	421	426	431	433	431	428	428
8.5	425	425	425	426	431	435	438	435	432	432
9.0	429	429	429	431	436	440	442	440	437	437
9.5	433	434	434	436	441	445	448	444	442	443
10.0	437	438	439	442	446	452	454	449	448	449
10.5	442	444	444	448	454	457	460	456	455	456
11.0	448	449	450	455	460	464	466	462	461	462
11.5	455	456	457	461	467	470	473	469	468	469
12.0	461	463	464	468	474	477	481	476	474	476
12.5	467	469	470	475	483	485	488	484	483	485
13.0	474	476	479	484	491	493	496	491	490	493
13.5	482	484	486	493	499	501	504	499	498	502
14.0	489	492	494	501	508	510	514	509	507	511
14.5	496	500	502	511	517	519	522	517	516	520
15.0	504	509	511	520	526	528	531	526	525	530
15.5	513	517	521	530	536	538	541	536	535	540
16.0	521	526	530	540	545	548	550	545	544	550
16.5	529	536	541	550	554	558	559	554	554	561
17.0	539	545	551	561	564	569	569	564	565	571
17.5	547	554	562	570	574	579	578	574	574	581

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CANDELA TABULATION - (Cont.)

18.0	556	564	572	580	583	589	589	583	584	592
18.5	565	573	581	590	593	598	598	594	596	602
19.0	574	581	592	599	603	607	608	604	606	612
19.5	583	591	602	608	612	618	619	613	617	623
20.0	592	600	611	619	622	627	628	624	627	634
20.5	601	609	621	628	631	637	637	634	637	645
21.0	610	618	630	637	641	648	647	644	648	655
21.5	620	626	638	646	651	658	656	654	659	666
22.0	628	635	648	655	660	668	665	664	670	677
22.5	637	644	656	664	670	678	675	675	680	688
23.0	646	652	665	673	680	688	685	685	690	699
23.5	653	660	674	681	689	698	694	695	701	710
24.0	660	667	682	689	699	707	705	706	711	720
24.5	668	676	690	698	709	716	715	716	721	731
25.0	676	684	699	706	718	726	725	726	732	742
25.5	682	692	707	714	727	734	734	736	741	752
26.0	689	700	715	722	736	743	743	745	750	762
26.5	695	708	722	731	744	752	753	756	760	771
27.0	703	716	731	739	753	760	761	765	769	782
27.5	709	723	738	747	761	768	770	775	777	791
28.0	715	731	745	756	769	776	780	785	786	801
28.5	721	737	753	763	777	785	789	795	794	812
29.0	727	743	759	771	786	793	798	805	802	821
29.5	733	749	766	779	793	801	808	815	811	831
30.0	738	756	772	786	801	810	816	824	820	841
30.5	744	762	779	793	809	817	825	832	828	850
31.0	749	767	785	800	816	824	834	841	837	859
31.5	756	773	791	808	823	831	843	849	846	869
32.0	761	779	797	815	829	839	851	857	854	877
32.5	766	784	802	821	837	846	858	865	864	885
33.0	771	788	808	827	843	853	867	872	873	894
33.5	775	792	813	832	850	861	873	879	882	902
34.0	780	796	817	839	856	867	880	885	892	909
34.5	784	800	821	844	863	874	886	892	901	918
35.0	789	804	825	849	868	880	894	898	909	925
35.5	793	809	829	854	873	886	899	905	918	931
36.0	797	812	834	859	878	893	905	911	925	938
36.5	801	816	838	864	883	898	911	918	933	945
37.0	805	819	841	868	887	903	917	924	940	952
37.5	810	823	845	872	892	908	922	930	948	958
38.0	814	826	848	876	896	912	927	935	954	965
38.5	818	829	851	880	899	916	931	940	960	973
39.0	821	832	854	883	903	919	935	946	966	980
39.5	825	836	857	886	906	923	939	952	973	987
40.0	828	839	861	890	909	926	944	957	979	994
40.5	832	842	862	892	912	929	948	962	986	1002
41.0	836	844	863	895	914	933	952	967	992	1010
41.5	840	847	865	897	918	937	956	973	1000	1018
42.0	844	849	866	899	921	941	960	979	1007	1027
42.5	848	852	867	901	924	946	965	985	1014	1036
43.0	852	854	870	903	928	950	971	992	1021	1045
43.5	856	857	874	905	932	954	977	1001	1031	1056
44.0	862	861	878	908	937	958	983	1009	1039	1067
44.5	866	865	882	911	943	963	989	1017	1048	1078
45.0	872	868	886	916	949	969	998	1028	1059	1090
45.5	877	873	891	921	956	979	1007	1038	1071	1103

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46.0	883	877	896	927	964	988	1018	1050	1085	1118
46.5	891	883	901	934	973	999	1030	1063	1098	1132
47.0	898	890	906	941	981	1010	1042	1075	1113	1148
47.5	906	897	912	950	991	1021	1055	1089	1128	1163
48.0	918	906	921	961	1004	1035	1069	1104	1144	1180
48.5	930	916	929	973	1016	1049	1084	1120	1160	1197
49.0	944	927	938	985	1030	1064	1099	1136	1177	1214
49.5	957	938	949	998	1044	1080	1115	1152	1194	1232
50.0	972	952	960	1011	1059	1094	1131	1169	1211	1250
50.5	987	966	974	1025	1073	1110	1149	1187	1230	1267
51.0	1003	982	989	1039	1088	1125	1166	1206	1250	1286
51.5	1019	999	1005	1055	1103	1142	1184	1225	1269	1304
52.0	1037	1015	1020	1070	1119	1157	1202	1244	1289	1321
52.5	1056	1033	1038	1086	1136	1175	1221	1262	1308	1339
53.0	1076	1051	1056	1102	1152	1194	1240	1281	1326	1356
53.5	1097	1070	1074	1120	1171	1212	1261	1299	1342	1371
54.0	1120	1091	1094	1137	1189	1232	1281	1317	1360	1387
54.5	1143	1111	1114	1154	1207	1252	1302	1335	1376	1402
55.0	1166	1132	1133	1173	1226	1272	1320	1353	1392	1417
55.5	1191	1153	1155	1193	1244	1291	1336	1370	1408	1430
56.0	1215	1176	1177	1212	1262	1309	1350	1387	1422	1444
56.5	1242	1200	1199	1233	1279	1324	1369	1405	1439	1456
57.0	1272	1225	1222	1255	1298	1342	1388	1424	1455	1469
57.5	1303	1252	1247	1277	1317	1363	1410	1443	1471	1481
58.0	1335	1280	1272	1299	1339	1386	1431	1463	1486	1494
58.5	1368	1310	1298	1321	1363	1409	1452	1482	1503	1507
59.0	1402	1341	1324	1344	1388	1432	1476	1505	1521	1521
59.5	1444	1374	1354	1372	1415	1458	1503	1529	1542	1538
60.0	1488	1410	1386	1402	1444	1488	1533	1556	1567	1557
60.5	1536	1449	1421	1435	1476	1524	1568	1588	1597	1580
61.0	1585	1492	1458	1469	1512	1563	1608	1624	1630	1605
61.5	1635	1538	1498	1508	1556	1606	1651	1668	1667	1637
62.0	1691	1589	1542	1555	1606	1656	1702	1718	1710	1672
62.5	1765	1647	1599	1615	1670	1727	1774	1786	1768	1715
63.0	1845	1713	1663	1684	1743	1807	1853	1860	1829	1760
63.5	1935	1797	1748	1772	1831	1897	1940	1938	1892	1808
64.0	2028	1890	1841	1864	1922	1989	2025	2014	1950	1849
64.5	2126	2001	1951	1964	2013	2066	2095	2074	1988	1861
65.0	2225	2113	2057	2056	2096	2138	2162	2132	2024	1870
65.5	2336	2222	2135	2119	2157	2209	2237	2201	2080	1901
66.0	2433	2313	2195	2165	2208	2273	2307	2266	2135	1931
66.5	2489	2343	2221	2191	2241	2324	2367	2314	2170	1950
67.0	2515	2343	2230	2205	2266	2366	2414	2351	2195	1960
67.5	2482	2303	2214	2205	2283	2387	2434	2372	2208	1952
68.0	2421	2243	2183	2195	2291	2401	2446	2385	2211	1935
68.5	2322	2165	2130	2173	2290	2413	2461	2397	2206	1903
69.0	2207	2078	2069	2141	2280	2422	2474	2402	2193	1863
69.5	2080	1986	2011	2105	2264	2426	2487	2403	2175	1818
70.0	1947	1887	1944	2057	2237	2416	2484	2391	2148	1769
70.5	1821	1787	1855	1991	2190	2376	2437	2349	2113	1734
71.0	1692	1683	1753	1906	2116	2300	2352	2269	2048	1677
71.5	1561	1565	1635	1776	1969	2132	2171	2085	1878	1527
72.0	1426	1440	1503	1624	1790	1924	1950	1859	1667	1343
72.5	1280	1302	1339	1437	1572	1669	1673	1576	1399	1122
73.0	1133	1160	1169	1239	1343	1408	1393	1291	1131	903
73.5	993	1019	1007	1044	1124	1172	1159	1065	930	743

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CANDELA TABULATION - (Cont.)

74.0	858	881	852	862	923	961	952	866	754	605
74.5	736	754	714	725	785	821	803	711	610	490
75.0	624	636	593	610	671	705	675	580	488	392
75.5	532	539	511	534	581	602	562	481	400	324
76.0	453	455	444	470	504	510	461	395	326	269
76.5	384	397	390	409	436	430	382	318	261	223
77.0	325	348	344	352	373	357	312	248	204	186
77.5	280	302	302	303	306	291	249	191	164	159
78.0	243	260	264	260	247	233	193	144	134	137
78.5	210	220	226	220	208	190	155	122	115	119
79.0	180	185	192	186	175	155	124	109	103	104
79.5	151	157	164	159	145	122	100	92	89	90
80.0	125	133	139	135	118	95	81	79	76	79
80.5	104	112	117	113	98	76	64	64	63	67
81.0	86	93	98	92	79	60	51	52	52	56
81.5	72	76	79	74	63	48	40	42	42	47
82.0	58	61	63	58	50	37	31	33	34	38
82.5	47	49	49	44	39	30	25	27	27	32
83.0	37	38	39	35	32	25	22	24	25	28
83.5	29	30	31	29	27	23	21	22	23	26
84.0	23	24	25	24	24	21	21	22	23	24
84.5	17	19	20	20	21	21	21	22	23	23
85.0	12	15	16	18	19	21	22	23	23	23
85.5	10	12	15	16	18	20	21	22	22	22
86.0	10	11	13	15	17	18	20	20	21	20
86.5	9	11	12	15	16	17	18	19	19	19
87.0	9	11	12	15	16	17	17	18	18	18
87.5	9	11	12	13	15	16	16	16	17	16
88.0	8	9	10	11	12	12	12	13	13	13
88.5	6	7	8	9	10	10	10	10	10	10
89.0	5	5	6	6	7	7	7	7	7	7
89.5	3	3	3	3	4	4	4	4	4	4
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	414	414	414	414	414	414	414	414	414	414
0.5	411	412	413	413	413	413	414	414	414	414
1.0	409	410	412	411	411	413	414	414	415	415
1.5	406	408	411	410	410	412	414	415	415	415
2.0	403	406	410	409	409	411	414	415	416	416
2.5	401	405	409	408	408	411	414	416	416	416
3.0	401	405	410	409	409	412	415	416	417	417
3.5	403	407	411	410	410	413	416	418	418	418
4.0	404	408	413	411	412	415	418	419	419	419
4.5	406	410	415	413	414	416	419	420	421	420
5.0	408	413	417	415	416	418	421	422	422	421
5.5	411	415	420	418	419	421	425	425	425	424
6.0	414	419	424	421	422	425	427	428	427	426
6.5	417	422	427	425	426	428	430	431	430	428
7.0	420	427	431	428	430	431	434	433	432	429
7.5	425	431	435	432	434	435	437	436	435	432
8.0	430	436	439	436	438	438	440	439	437	434
8.5	435	440	444	441	443	442	444	442	439	436
9.0	440	446	449	446	447	446	447	446	442	438

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9.5	446	452	455	452	453	452	452	449	444	441
10.0	453	458	460	457	458	456	456	454	447	443
10.5	460	464	466	463	463	461	460	458	452	447
11.0	467	471	473	469	469	466	465	463	456	450
11.5	474	480	480	476	475	471	469	467	460	455
12.0	483	487	487	484	482	476	474	472	464	459
12.5	491	495	494	490	488	483	481	477	468	463
13.0	499	503	502	498	494	490	487	484	473	468
13.5	509	513	511	506	501	497	494	489	480	472
14.0	518	522	519	514	510	504	500	495	485	477
14.5	527	532	527	522	517	512	508	501	491	483
15.0	537	542	537	530	524	520	516	509	496	488
15.5	547	552	546	540	534	528	523	516	503	494
16.0	557	563	555	549	542	537	531	523	511	499
16.5	568	573	565	558	551	546	540	530	517	506
17.0	579	583	575	568	561	554	549	539	524	512
17.5	590	594	584	578	570	564	557	547	532	519
18.0	600	604	595	589	579	573	567	555	540	525
18.5	610	613	605	599	589	582	575	563	548	532
19.0	621	624	616	610	599	593	584	571	555	540
19.5	632	633	627	621	609	602	594	579	564	547
20.0	643	644	637	631	620	612	603	589	572	554
20.5	653	654	648	641	630	623	613	597	580	562
21.0	664	665	658	652	640	633	624	605	588	570
21.5	676	676	670	662	651	644	634	614	596	577
22.0	686	687	680	673	662	654	645	624	604	584
22.5	698	698	690	683	673	665	655	632	612	593
23.0	708	708	701	693	683	677	665	641	621	600
23.5	719	718	712	704	693	688	676	651	630	608
24.0	730	729	722	715	705	700	686	660	638	616
24.5	740	739	733	726	715	711	698	671	648	624
25.0	750	749	743	736	726	722	708	680	656	632
25.5	761	759	754	745	737	733	717	689	666	643
26.0	771	769	764	756	748	744	728	699	677	653
26.5	782	779	774	765	761	755	737	709	686	663
27.0	791	789	786	775	772	765	747	718	698	675
27.5	801	798	796	785	784	776	758	729	708	686
28.0	811	809	807	795	795	787	768	740	720	699
28.5	820	818	816	805	807	798	779	752	733	712
29.0	829	827	826	816	818	809	790	763	746	726
29.5	839	837	837	827	829	819	801	775	759	739
30.0	848	847	846	838	840	830	813	788	772	753
30.5	857	856	855	849	851	842	825	801	787	768
31.0	867	866	865	859	863	852	838	815	801	783
31.5	877	876	874	871	874	864	850	828	817	797
32.0	886	885	883	882	885	875	863	843	831	812
32.5	895	895	894	893	896	886	875	857	846	825
33.0	903	904	904	905	907	899	889	871	861	838
33.5	911	913	914	917	919	912	902	885	875	849
34.0	920	923	926	929	930	925	916	900	889	861
34.5	927	932	936	941	941	937	928	913	901	870
35.0	935	941	947	953	953	951	941	927	913	878
35.5	943	950	957	964	965	964	954	940	923	884
36.0	950	958	966	975	978	979	966	952	930	889
36.5	958	967	976	986	990	992	978	963	936	892
37.0	965	976	986	996	1003	1006	990	975	943	894

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37.5	974	985	995	1008	1014	1019	1001	984	948	895
38.0	982	995	1006	1018	1026	1032	1011	991	952	895
38.5	990	1006	1016	1030	1037	1043	1020	999	955	893
39.0	1000	1017	1027	1040	1047	1055	1030	1004	957	891
39.5	1009	1028	1037	1051	1059	1066	1038	1009	958	886
40.0	1018	1039	1048	1062	1069	1076	1045	1012	957	882
40.5	1029	1049	1060	1073	1080	1086	1051	1013	954	874
41.0	1039	1061	1071	1085	1090	1094	1057	1013	949	866
41.5	1049	1072	1084	1096	1100	1102	1062	1012	943	855
42.0	1061	1084	1095	1108	1111	1110	1065	1010	935	845
42.5	1072	1095	1108	1119	1120	1117	1068	1007	926	832
43.0	1084	1108	1120	1129	1129	1121	1067	1002	914	818
43.5	1096	1120	1132	1141	1138	1125	1065	995	902	802
44.0	1109	1132	1145	1151	1146	1127	1061	988	887	786
44.5	1121	1145	1158	1162	1154	1129	1057	979	872	768
45.0	1133	1158	1171	1172	1162	1129	1050	968	855	748
45.5	1147	1172	1183	1182	1166	1126	1043	953	839	727
46.0	1162	1185	1196	1192	1170	1122	1034	936	819	703
46.5	1175	1199	1208	1201	1174	1117	1023	919	799	678
47.0	1190	1212	1221	1210	1176	1111	1012	899	777	651
47.5	1205	1227	1232	1219	1178	1104	1001	879	754	621
48.0	1222	1240	1245	1227	1178	1096	986	858	723	582
48.5	1238	1255	1256	1234	1177	1088	972	837	691	541
49.0	1255	1269	1267	1241	1175	1078	955	815	657	497
49.5	1272	1283	1279	1249	1173	1068	937	791	622	454
50.0	1288	1296	1289	1254	1168	1056	919	765	585	410
50.5	1304	1310	1299	1259	1159	1039	895	733	545	367
51.0	1319	1322	1308	1262	1149	1020	870	700	504	326
51.5	1334	1336	1316	1265	1139	1001	844	665	463	285
52.0	1349	1347	1324	1266	1126	981	817	630	421	247
52.5	1363	1360	1332	1267	1115	960	789	593	380	213
53.0	1377	1370	1338	1267	1104	943	762	554	337	188
53.5	1391	1382	1343	1265	1093	926	734	516	296	168
54.0	1404	1392	1347	1262	1083	907	705	475	255	149
54.5	1417	1401	1351	1258	1070	889	676	434	217	134
55.0	1429	1411	1356	1252	1057	869	645	391	182	120
55.5	1440	1418	1357	1238	1041	846	609	338	158	112
56.0	1449	1425	1359	1225	1023	819	570	286	139	106
56.5	1460	1433	1365	1214	1006	782	519	247	129	101
57.0	1471	1441	1369	1205	988	744	469	214	121	97
57.5	1482	1446	1365	1196	968	723	439	193	115	92
58.0	1493	1451	1359	1185	949	703	410	175	109	89
58.5	1505	1460	1358	1174	929	675	363	156	102	86
59.0	1518	1471	1357	1162	908	641	317	138	95	84
59.5	1530	1480	1357	1149	886	596	285	126	91	82
60.0	1544	1488	1355	1136	865	552	261	116	89	80
60.5	1559	1495	1353	1122	842	527	247	111	86	78
61.0	1578	1501	1351	1110	821	507	236	107	84	76
61.5	1602	1515	1356	1103	807	476	215	101	82	74
62.0	1629	1532	1360	1093	789	445	194	94	79	72
62.5	1660	1550	1362	1067	750	414	185	90	77	70
63.0	1690	1565	1359	1038	709	384	177	88	75	67
63.5	1713	1575	1344	1018	678	359	166	84	73	66
64.0	1727	1576	1326	1001	651	337	155	81	71	64
64.5	1722	1553	1304	988	633	319	139	78	69	62
65.0	1711	1523	1276	967	611	301	125	74	66	61

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION - (Cont.)

65.5	1703	1484	1228	907	565	279	119	73	64	59
66.0	1697	1448	1178	841	514	257	116	71	62	57
66.5	1698	1438	1140	784	466	231	109	69	60	56
67.0	1691	1424	1102	733	422	204	101	66	58	54
67.5	1654	1383	1062	699	388	183	97	63	56	52
68.0	1604	1331	1016	665	353	162	92	61	54	50
68.5	1538	1267	953	618	305	145	86	59	52	49
69.0	1472	1199	885	565	257	130	80	57	51	47
69.5	1426	1131	821	504	220	115	74	55	49	46
70.0	1377	1059	752	441	188	102	67	52	47	44
70.5	1299	967	662	373	166	93	64	50	46	43
71.0	1207	872	572	308	148	87	61	48	44	40
71.5	1094	785	498	265	129	80	58	46	42	39
72.0	968	693	428	226	111	73	55	45	40	37
72.5	821	576	351	192	99	66	51	43	38	36
73.0	672	460	280	162	89	61	49	40	37	34
73.5	540	365	231	137	81	58	46	38	35	33
74.0	425	288	194	116	75	55	44	37	33	31
74.5	354	247	173	106	67	51	42	35	32	30
75.0	299	218	158	98	61	48	39	34	31	28
75.5	252	192	140	87	56	45	37	32	29	27
76.0	212	169	125	77	53	42	35	31	28	26
76.5	183	149	108	69	49	39	34	29	26	24
77.0	159	133	94	61	46	38	32	28	25	23
77.5	143	121	85	57	43	35	30	27	24	21
78.0	130	111	78	52	38	33	28	25	22	20
78.5	115	101	70	47	35	30	26	23	21	18
79.0	102	89	62	43	33	27	24	22	19	16
79.5	89	77	54	38	31	26	23	20	18	15
80.0	77	65	47	34	29	24	21	18	16	13
80.5	66	56	42	31	26	22	20	17	13	11
81.0	57	48	36	29	24	21	18	16	12	10
81.5	48	40	33	26	23	19	17	15	11	9
82.0	40	34	29	24	21	18	15	12	10	8
82.5	34	29	27	23	19	16	13	11	9	8
83.0	30	26	24	21	18	15	12	11	9	7
83.5	27	23	22	19	17	13	11	10	8	7
84.0	24	21	20	18	16	12	11	9	8	7
84.5	22	20	19	17	15	12	10	9	8	6
85.0	21	19	18	16	13	11	9	8	7	6
85.5	19	18	17	15	13	11	9	8	7	6
86.0	18	17	16	15	12	11	9	8	7	6
86.5	18	16	16	13	12	10	9	8	7	6
87.0	17	16	15	13	12	10	9	8	7	6
87.5	16	15	13	12	11	10	9	8	7	6
88.0	12	11	11	10	9	8	7	6	6	5
88.5	10	9	9	8	7	6	6	5	4	4
89.0	7	6	6	5	5	4	4	3	3	3
89.5	3	3	3	3	2	2	2	2	1	1
90.0	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	414	414	414	414	414	414	414
0.5	414	414	414	415	414	413	413

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION - (Cont.)

1.0	414	415	415	416	415	413	413
1.5	414	415	416	417	416	413	412
2.0	415	416	417	418	417	413	412
2.5	415	416	418	420	418	413	412
3.0	416	417	420	421	420	415	413
3.5	417	418	421	422	421	417	414
4.0	418	419	422	425	424	418	416
4.5	419	420	425	426	425	420	417
5.0	420	422	426	427	427	422	419
5.5	422	424	427	428	428	424	420
6.0	424	425	427	429	429	425	421
6.5	425	426	428	430	430	426	422
7.0	427	427	429	431	431	427	424
7.5	428	428	430	432	432	428	426
8.0	430	430	431	433	433	429	428
8.5	432	432	433	435	435	431	430
9.0	434	434	435	437	436	433	432
9.5	436	436	436	438	438	434	434
10.0	439	438	438	440	440	436	436
10.5	442	441	441	443	442	438	439
11.0	445	444	444	445	445	441	441
11.5	448	447	447	448	447	444	444
12.0	453	452	450	452	450	446	447
12.5	457	455	454	455	454	449	450
13.0	461	459	458	458	457	453	454
13.5	466	463	461	462	460	457	458
14.0	470	467	465	465	463	460	461
14.5	475	472	469	469	466	463	464
15.0	481	476	474	472	470	466	468
15.5	486	482	479	475	473	470	471
16.0	492	486	483	480	476	473	474
16.5	497	491	487	483	480	476	477
17.0	503	496	491	487	484	481	481
17.5	509	500	495	490	487	484	484
18.0	515	506	499	494	490	487	487
18.5	521	511	503	498	493	491	490
19.0	527	515	509	502	497	494	493
19.5	532	520	513	507	500	497	496
20.0	539	525	517	511	503	501	500
20.5	546	530	522	514	508	504	503
21.0	552	537	527	518	511	508	507
21.5	559	543	532	522	515	512	510
22.0	566	548	537	526	518	516	513
22.5	573	554	543	531	522	520	517
23.0	579	561	548	537	527	524	521
23.5	586	567	554	542	534	529	526
24.0	593	573	561	547	539	536	531
24.5	600	579	567	553	545	542	538
25.0	607	586	574	561	552	548	544
25.5	617	596	583	570	562	557	553
26.0	627	606	594	580	572	567	563
26.5	637	617	604	592	582	577	573
27.0	648	627	614	602	593	586	583
27.5	659	639	626	613	604	597	594
28.0	673	653	637	625	613	606	603
28.5	686	666	650	636	624	616	612

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION - (Cont.)

29.0	700	680	662	648	634	624	622
29.5	714	693	675	658	643	632	630
30.0	728	707	686	667	651	638	637
30.5	741	718	695	676	657	644	643
31.0	755	730	704	683	662	648	647
31.5	767	740	712	689	667	651	649
32.0	780	749	718	693	671	653	651
32.5	791	759	725	698	672	653	651
33.0	801	765	727	698	670	650	648
33.5	812	769	729	696	666	645	641
34.0	820	773	729	693	662	638	635
34.5	827	776	728	690	657	632	629
35.0	834	779	727	686	651	625	622
35.5	835	776	721	681	645	619	616
36.0	835	774	716	674	637	612	608
36.5	834	771	711	667	630	606	602
37.0	830	766	704	659	623	600	596
37.5	828	761	698	652	616	593	589
38.0	824	756	690	646	609	589	583
38.5	820	748	684	638	603	583	579
39.0	815	741	677	631	597	578	573
39.5	809	734	670	623	589	571	566
40.0	801	725	661	614	580	563	557
40.5	792	715	652	603	568	550	544
41.0	783	705	641	592	553	535	528
41.5	771	693	630	578	538	518	511
42.0	760	681	617	564	520	498	491
42.5	746	666	601	544	498	475	468
43.0	730	648	576	516	467	442	434
43.5	711	626	549	483	433	405	397
44.0	692	603	520	448	397	367	358
44.5	671	578	489	413	360	329	321
45.0	648	550	456	377	324	292	283
45.5	619	514	416	339	289	260	252
46.0	586	475	376	302	255	229	222
46.5	553	435	335	265	222	200	195
47.0	519	394	295	229	192	173	169
47.5	482	354	256	197	165	151	146
48.0	438	313	226	175	147	136	133
48.5	392	275	199	158	135	126	122
49.0	347	237	174	141	125	116	114
49.5	302	201	151	128	115	109	108
50.0	262	170	132	115	107	103	102
50.5	230	152	120	108	102	99	98
51.0	202	138	113	103	99	95	94
51.5	179	126	107	99	94	93	92
52.0	156	116	103	95	92	90	90
52.5	137	108	99	93	90	89	88
53.0	126	103	94	90	88	87	86
53.5	116	99	91	88	86	85	85
54.0	110	94	89	86	84	83	83
54.5	104	91	87	84	83	82	82
55.0	100	89	85	83	81	80	80
55.5	94	87	83	81	80	79	78
56.0	91	84	81	79	78	77	77
56.5	88	82	79	77	76	75	75

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION - (Cont.)

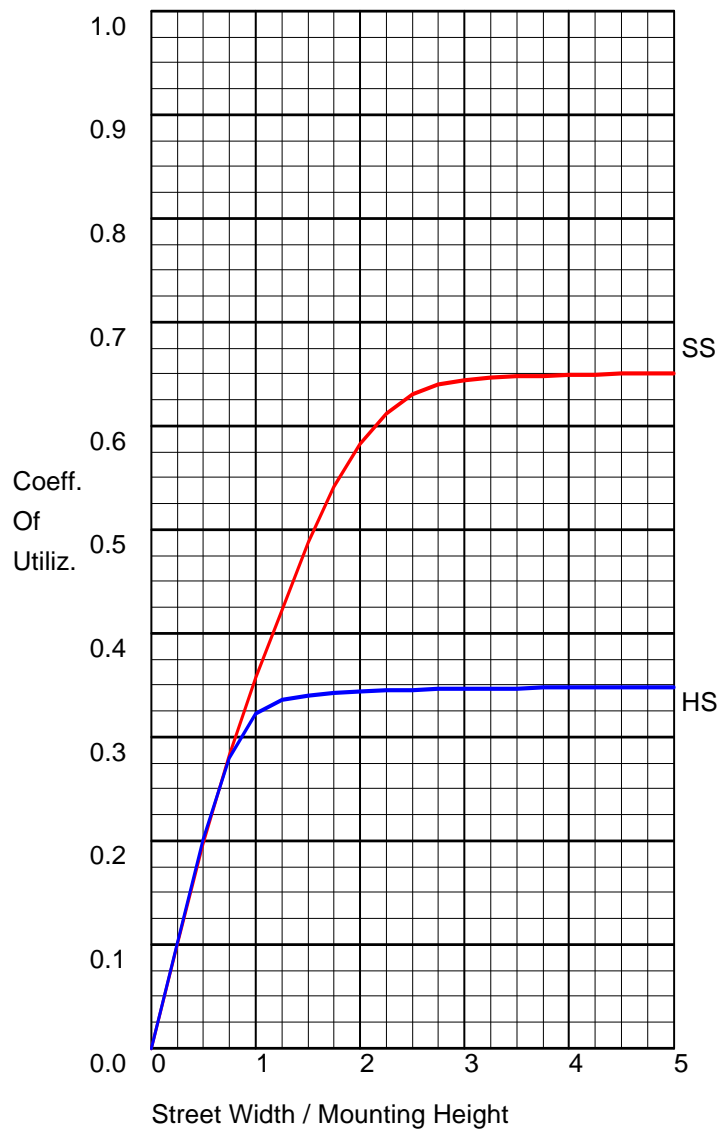
57.0	85	81	78	76	74	73	73
57.5	83	79	76	74	72	71	71
58.0	81	77	74	72	71	70	70
58.5	80	75	72	70	69	67	67
59.0	78	74	71	67	67	66	66
59.5	76	72	69	66	65	64	64
60.0	74	70	66	64	64	62	62
60.5	73	67	64	62	62	61	60
61.0	71	66	63	61	60	59	59
61.5	69	64	61	59	59	58	57
62.0	66	63	60	58	57	57	56
62.5	64	61	58	56	56	55	54
63.0	63	60	57	55	54	54	53
63.5	61	58	55	53	53	53	52
64.0	60	57	54	52	51	51	50
64.5	58	55	52	51	49	50	49
65.0	57	53	51	49	48	49	48
65.5	55	52	49	47	47	47	47
66.0	53	50	48	46	45	46	47
66.5	52	49	47	45	44	45	46
67.0	50	48	45	44	42	44	45
67.5	49	46	44	42	40	42	43
68.0	47	44	43	40	39	40	42
68.5	46	43	40	38	37	39	40
69.0	45	42	39	37	36	38	39
69.5	43	39	37	36	35	37	38
70.0	40	38	36	34	33	35	36
70.5	39	37	35	33	32	34	35
71.0	37	35	33	32	31	33	33
71.5	36	34	32	30	30	31	32
72.0	35	32	30	29	29	30	30
72.5	33	31	29	28	27	28	28
73.0	32	30	28	27	26	26	26
73.5	30	28	26	25	25	25	24
74.0	29	27	25	24	24	23	23
74.5	28	26	24	23	22	21	21
75.0	26	24	22	21	21	20	20
75.5	25	23	21	20	20	18	18
76.0	24	21	19	18	18	17	16
76.5	22	20	18	17	16	15	15
77.0	21	18	17	16	15	13	13
77.5	19	17	15	13	13	12	11
78.0	18	15	13	12	11	10	10
78.5	16	13	12	11	10	9	8
79.0	15	12	10	10	8	7	7
79.5	12	10	9	8	7	6	6
80.0	11	9	8	7	6	5	5
80.5	10	8	7	6	5	4	4
81.0	9	7	6	5	4	4	3
81.5	8	6	5	4	4	3	3
82.0	7	6	5	4	3	3	2
82.5	6	5	4	3	3	2	2
83.0	6	5	4	3	3	2	2
83.5	6	5	4	3	2	2	2
84.0	6	5	4	3	2	2	2
84.5	5	5	4	3	3	2	2

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091604012R01.IES

CANDELA TABULATION - (Cont.)

85.0	5	5	4	3	3	2	2
85.5	5	5	4	3	3	2	2
86.0	5	5	4	3	3	2	2
86.5	5	5	4	3	3	2	2
87.0	5	5	4	3	3	2	2
87.5	5	4	4	3	2	2	2
88.0	4	4	3	3	2	2	2
88.5	3	3	2	2	2	1	1
89.0	2	2	2	1	1	1	1
89.5	1	1	1	1	1	1	0
90.0	0	0	0	0	0	0	0

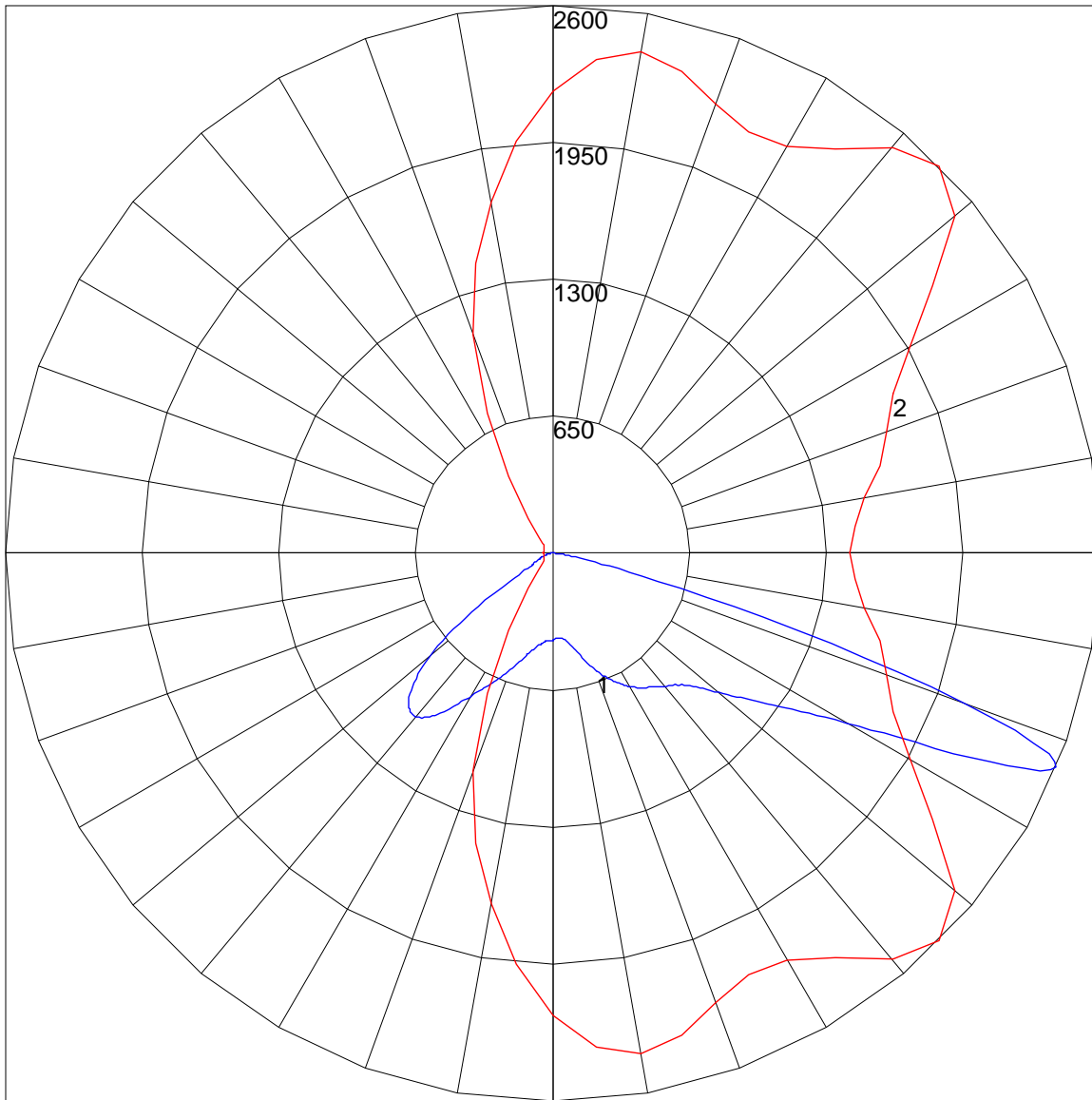
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

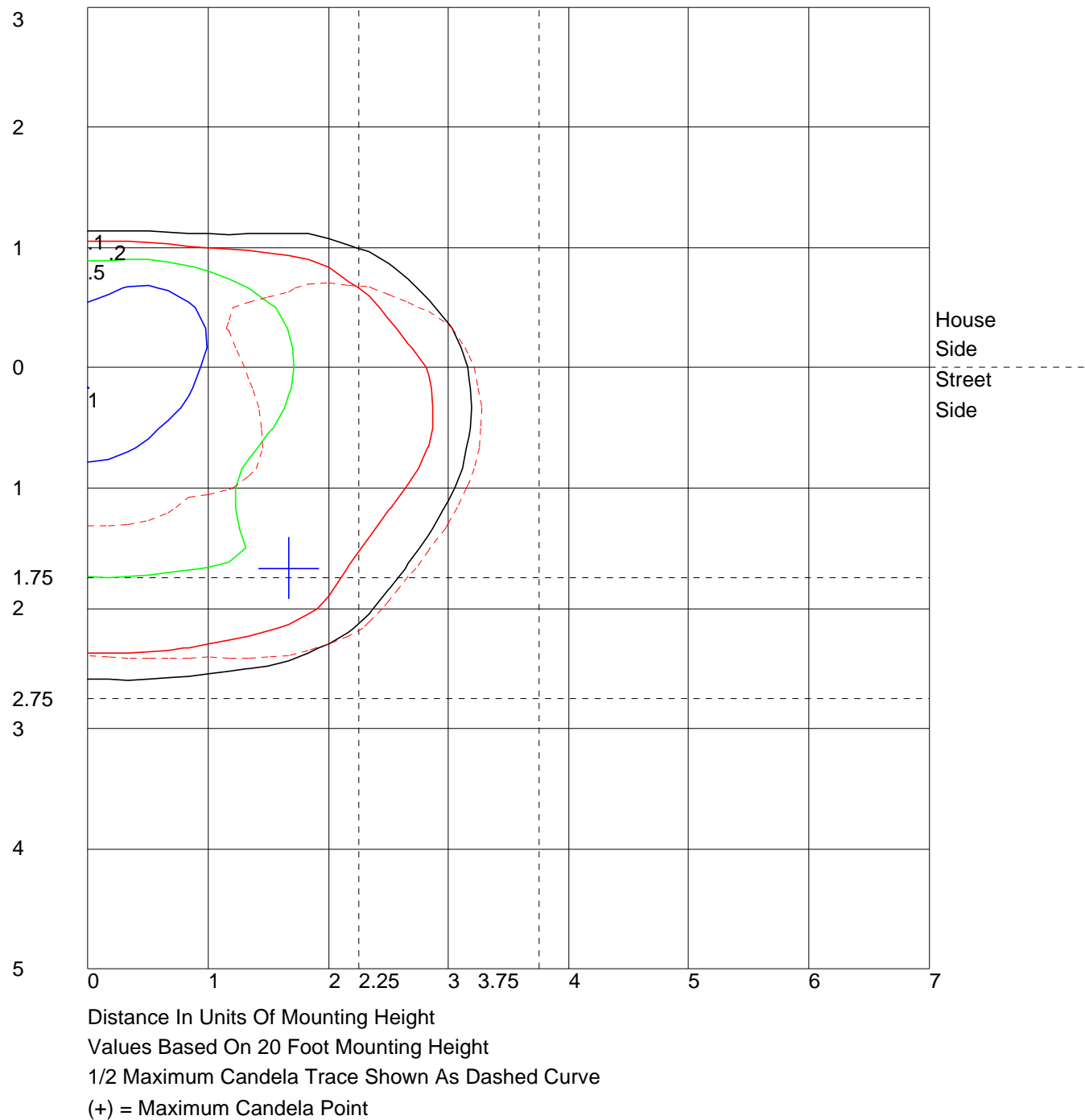
	Lumens	Percent Of Luminaire
Downward Street Side	2731.8	65.2
Downward House Side	1459.4	34.8
Downward Total	4191.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4191.2	100.0

POLAR GRAPH

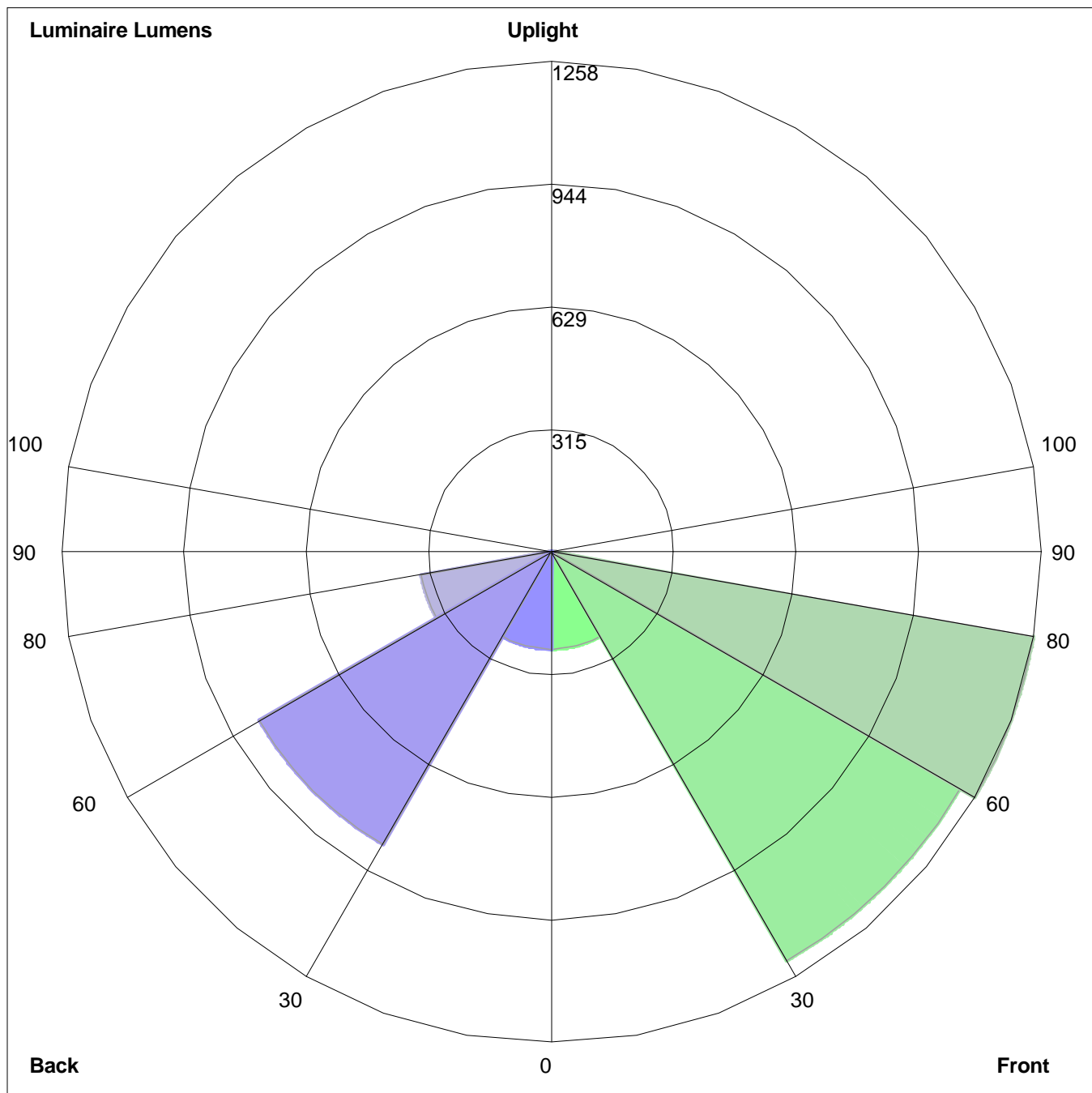


Maximum Candela = 2600 Located At Horizontal Angle = 45, Vertical Angle = 67
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=249.2, Medium=1212.2, High=1258.1, Very High=12.4
Back: Low=248.9, Medium=865.1, High=339.1, Very High=6.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1