



OUTDOOR LIGHTING SPECIALISTS SINCE 1972

IES ROAD REPORT

PHOTOMETRIC FILENAME : NILAND FR T2 D SHORT CUTOFF AP LED125.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 3.1.5 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST] 1

[TEST DATE] Tue Aug 03 23:04:48 2010

[MANUFAC]

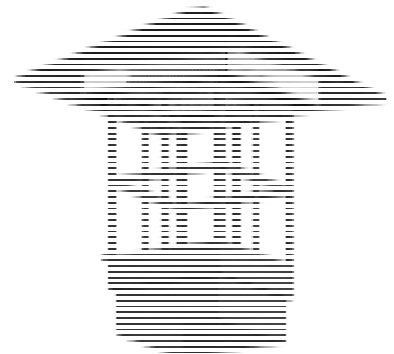
[LUMINAIRE] Niland Fr T2 D Short Cutoff AP

[LAMP] LED Cree XPG, Fr F1G Left & Right

[LAMPCAT] 3535 XPG, FRNRDLT, FRNRDRT

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Cutoff Classification (deprecated)	Cutoff
Lumens Per Lamp	213.8 (54 lamps)
Total Lamp Lumens	11545.2
Luminaire Lumens	5170
Total Luminaire Efficiency	45 %
Downward Total Efficiency	45 %
Upward Waste Light Ratio	0.00
Maximum Candela	3427.899
Maximum Candela Angle	80H 55V
Maximum Candela At 90 Degrees Vertical	2.17 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	112.678 (1.0% Lamp Lumens)
Total Luminaire Watts	124.83
Ballast Factor	1.00



IES ROAD REPORT**PHOTOMETRIC FILENAME : NILAND FR T2 D SHORT CUTOFF AP LED125.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	401.9	3.5	7.8
FM - Front-Medium (30-60)	1667.6	14.4	32.3
FH - Front-High (60-80)	1044.0	9.0	20.2
FVH - Front-Very High (80-90)	11.5	0.1	0.2
BL - Back-Low (0-30)	334.7	2.9	6.5
BM - Back-Medium (30-60)	1039.1	9.0	20.1
BH - Back-High (60-80)	650.5	5.6	12.6
BVH - Back-Very High (80-90)	11.3	0.1	0.2
UL - Uplight-Low (90-100)	0.4	0.0	0.0
UH - Uplight-High (100-180)	8.3	0.1	0.2
Total	5169.3	44.7	100.0
BUG Rating	B2-U1-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693
5	1473.638	1544.214	1558.183	1526.100	1522.297	1522.151	1533.926	1585.535	1562.083	1494.823
10	1449.868	1466.007	1481.024	1487.460	1473.516	1463.057	1374.465	1335.338	1306.864	1259.569
15	1377.464	1439.751	1434.559	1447.699	1352.500	1078.753	881.335	792.158	750.910	730.285
20	799.057	882.408	1014.710	1078.412	816.927	590.547	580.845	676.262	712.416	721.436
25	414.119	424.626	394.007	437.084	551.493	706.297	785.869	906.689	1022.707	1012.102
30	753.713	844.572	701.177	555.442	871.559	1081.215	923.778	1083.092	1190.407	1203.108
35	1133.312	1283.192	1235.532	906.933	1101.328	1135.726	1082.995	1280.900	1381.121	1385.680
40	1012.175	1150.134	1199.720	955.592	991.258	1160.080	1251.110	1463.106	1576.588	1575.491
45	836.430	996.573	1065.247	813.002	995.208	1204.303	1486.436	1846.289	1901.580	1866.596
50	1015.466	1144.283	1050.059	807.712	1038.309	1339.897	1724.713	2554.268	2756.269	2758.999
55	1025.242	1196.087	1190.163	853.007	1038.211	1308.863	2051.289	3232.554	3427.899	3411.736
60	972.706	1126.096	1096.623	800.471	957.177	1196.453	1956.992	3189.087	3302.837	3309.468
65	849.448	966.807	926.679	681.845	802.934	871.901	1518.299	2770.213	3177.360	3274.314
70	592.327	646.106	673.459	510.878	508.196	522.458	1079.143	2182.397	2462.775	2479.499
75	246.492	276.478	316.605	246.004	194.176	210.241	596.179	1250.866	1384.314	1335.801
80	12.531	15.139	28.450	30.156	24.232	37.129	92.468	112.678	89.104	77.402
85	3.949	3.706	3.803	4.047	6.217	10.263	16.065	29.230	43.418	40.542
90	0.439	0.463	0.488	0.341	0.366	0.634	1.219	2.097	2.170	1.390
95	0.293	0.268	0.244	0.146	0.098	0.122	0.195	0.390	0.341	0.122
100	0.195	0.244	0.219	0.171	0.098	0.146	0.195	0.219	0.219	0.171
105	0.244	0.244	0.219	0.219	0.146	0.219	0.244	0.244	0.219	0.171
110	0.268	0.268	0.341	0.244	0.268	0.414	0.414	0.390	0.341	0.293
115	0.561	0.634	0.658	0.707	0.756	0.829	0.878	0.683	0.585	0.488
120	1.073	1.243	1.365	1.585	1.707	1.731	1.707	1.390	1.219	1.024
125	2.097	2.389	2.657	2.828	3.096	3.169	3.145	2.706	2.438	1.853
130	2.755	2.999	3.340	3.730	4.266	4.608	4.291	3.876	3.340	2.779
135	3.047	3.047	3.340	4.022	5.022	5.241	4.973	4.608	4.022	3.364
140	2.901	3.194	3.706	4.096	4.924	5.339	5.412	4.900	4.413	3.949
145	3.096	3.340	3.779	4.534	5.120	5.363	5.315	4.754	4.461	3.657
150	2.901	3.145	3.657	4.486	4.998	5.144	4.632	4.120	3.876	3.462
155	2.584	2.730	3.194	3.706	4.266	4.291	4.120	3.779	3.559	3.145
160	2.048	2.194	2.316	2.438	2.730	2.877	3.145	3.072	3.072	2.828
165	1.121	1.146	1.024	1.048	1.341	1.682	1.609	1.828	1.828	1.658
170	0.390	0.439	0.414	0.244	0.073	0.073	0.341	0.536	0.707	0.731
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

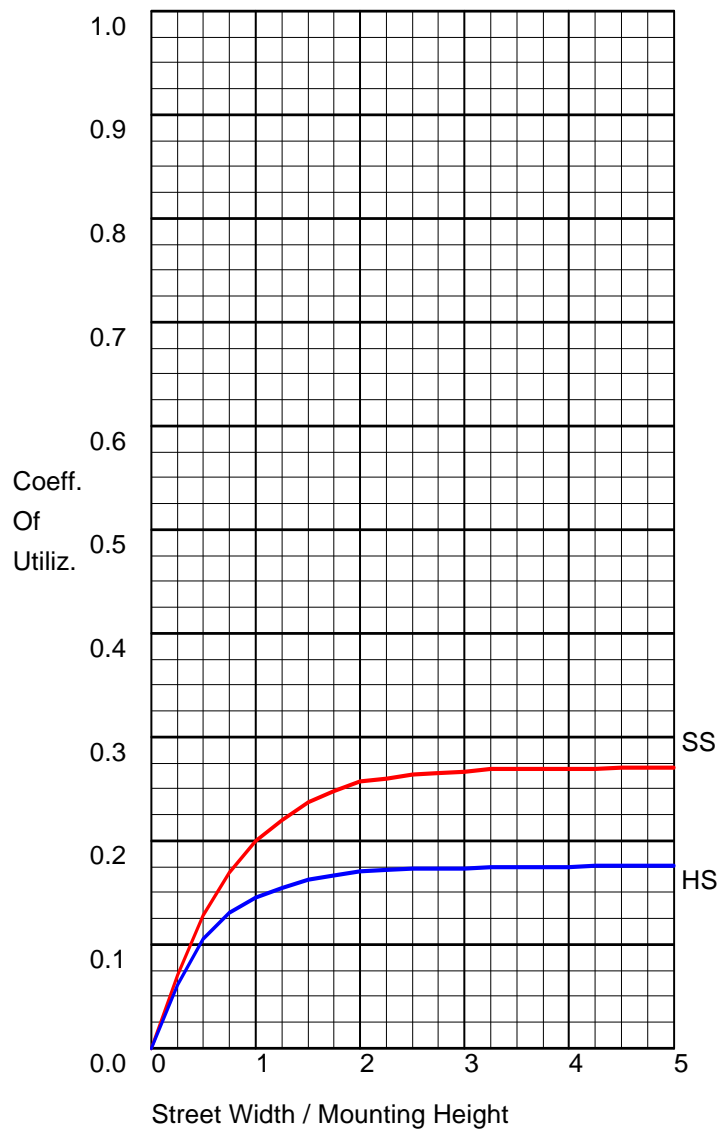
Vert. Angles	Horizontal Angles								
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
0	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693	1511.693
5	1465.251	1435.461	1398.673	1304.718	1226.463	1144.283	1064.150	1005.617	952.082
10	1267.370	1175.877	890.185	717.706	715.951	790.330	841.305	835.138	820.316
15	702.469	622.532	618.509	802.836	810.515	826.800	845.621	846.815	786.259
20	671.314	529.820	660.538	774.874	754.420	745.010	821.120	859.370	822.363
25	889.063	616.657	535.622	678.383	745.303	735.795	697.667	688.549	647.959
30	1062.322	714.732	671.362	773.850	680.626	641.474	620.435	645.131	617.315
35	1209.008	875.899	829.238	795.035	685.014	594.716	590.669	641.572	632.161
40	1400.429	962.077	800.276	720.095	628.285	531.624	504.881	532.185	540.400
45	1654.064	1132.045	792.183	594.813	474.822	443.008	450.663	493.837	503.296
50	2423.647	1525.637	822.851	489.132	379.575	391.423	437.181	469.361	490.790
55	3013.780	1873.374	871.827	436.986	351.832	353.343	432.330	496.738	504.613

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CANDELA TABULATION - (Cont.)

60	2902.565	1848.946	810.954	402.539	321.602	324.601	379.380	446.080	436.767
65	2805.952	1625.029	634.185	329.794	267.896	267.604	303.782	353.807	354.587
70	2198.828	1248.136	466.143	228.135	193.152	201.660	217.189	248.101	249.881
75	1239.871	697.130	249.491	122.502	109.119	120.284	129.328	136.886	138.129
80	87.373	78.889	52.536	37.470	33.837	41.029	43.516	43.101	37.689
85	23.330	13.750	12.336	14.115	11.482	11.092	11.531	10.824	8.947
90	1.731	1.243	0.634	0.512	0.488	0.585	0.878	1.268	0.878
95	0.195	0.146	0.073	0.098	0.122	0.171	0.293	0.414	0.317
100	0.098	0.073	0.073	0.073	0.098	0.146	0.244	0.317	0.293
105	0.122	0.098	0.098	0.122	0.146	0.171	0.219	0.244	0.317
110	0.195	0.122	0.146	0.195	0.195	0.195	0.219	0.244	0.293
115	0.341	0.244	0.244	0.341	0.366	0.390	0.317	0.317	0.341
120	0.707	0.463	0.463	0.561	0.683	0.683	0.536	0.512	0.463
125	1.219	0.853	0.731	0.756	0.902	0.902	0.804	0.731	0.707
130	1.926	1.292	0.975	0.975	1.146	1.195	1.073	0.878	0.829
135	2.438	1.585	1.219	1.170	1.219	1.316	1.243	1.024	1.097
140	2.779	2.218	1.682	1.463	1.487	1.438	1.316	1.219	0.951
145	3.047	2.462	2.267	1.950	1.804	1.585	1.268	1.146	1.097
150	3.023	2.584	2.511	2.609	2.194	1.828	1.414	1.170	1.121
155	2.804	2.609	2.462	2.706	2.706	2.097	1.755	1.585	1.292
160	2.438	2.218	2.243	2.267	2.267	2.462	2.145	1.999	1.877
165	1.463	1.243	1.073	1.560	1.877	1.463	1.487	1.633	1.633
170	0.634	0.414	0.317	0.049	0.098	0.390	0.731	0.951	0.853
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

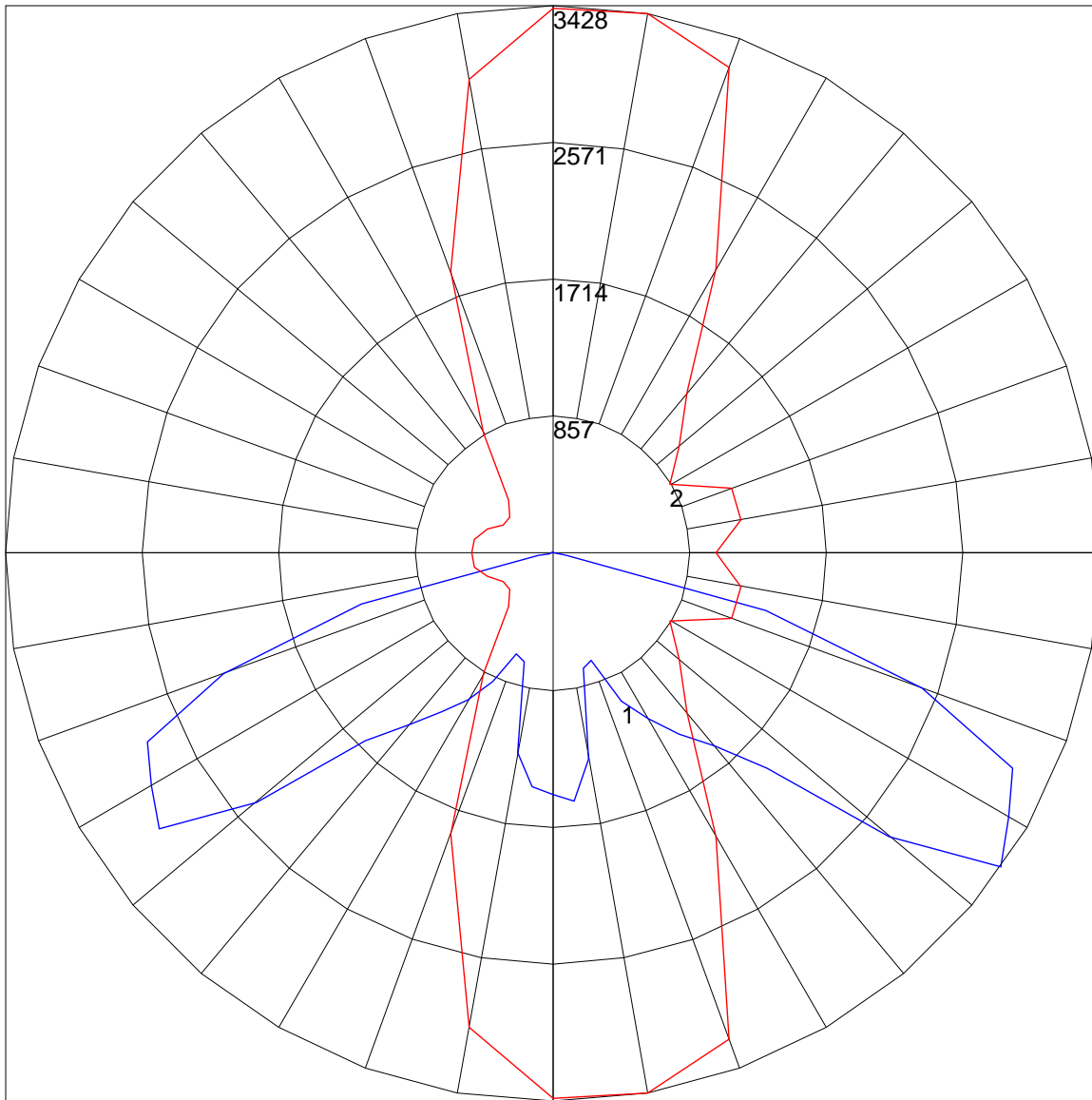
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

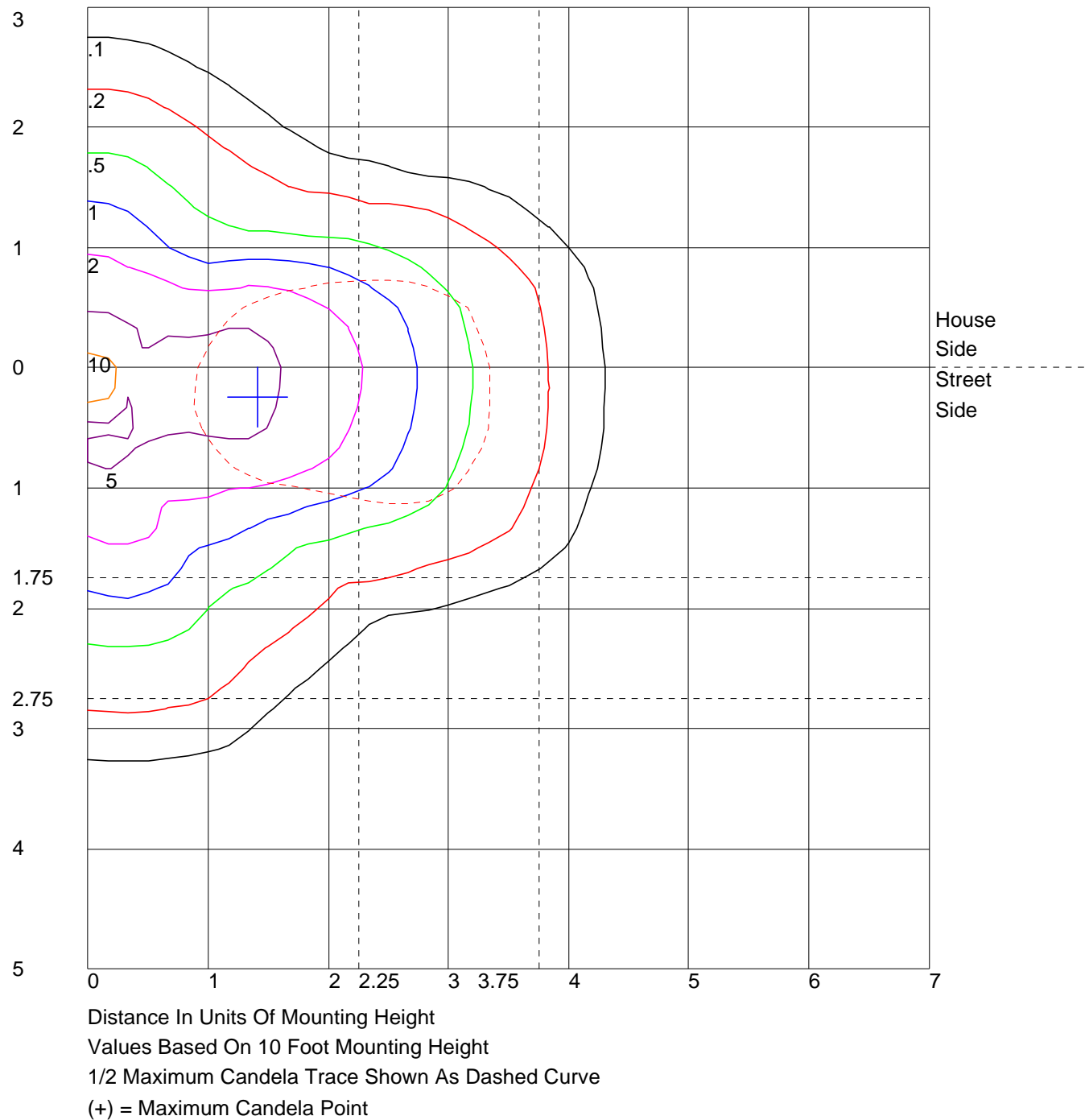
	Lumens	Percent Of Lamp
Downward Street Side	3125.0	27.1
Downward House Side	2035.8	17.6
Downward Total	5160.8	44.7
Upward Street Side	5.9	0.1
Upward House Side	2.8	0.0
Upward Total	8.7	0.1
Total Flux	5169.5	44.8

POLAR GRAPH

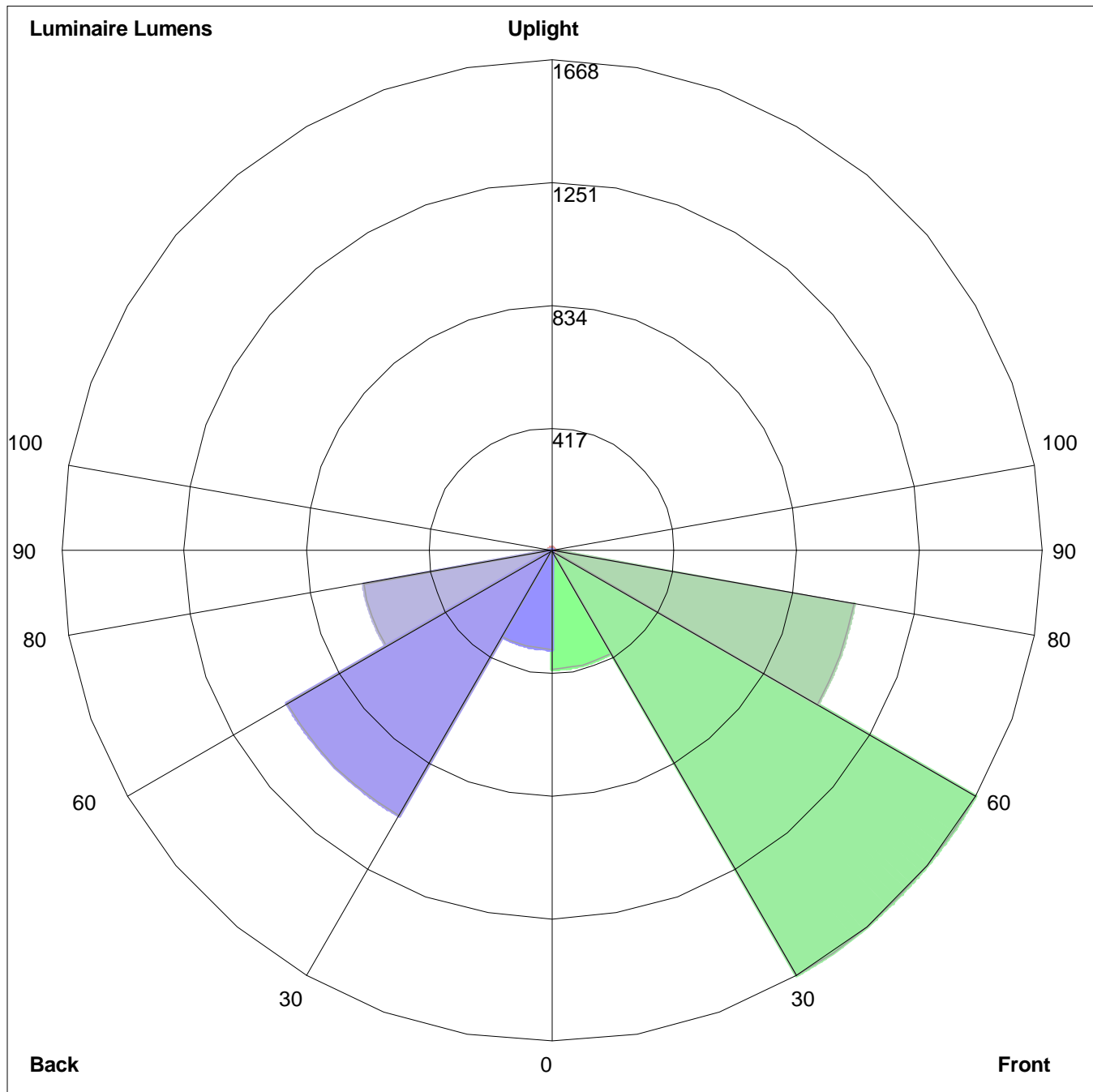


Maximum Candela = 3427.899 Located At Horizontal Angle = 80, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=401.9, Medium=1667.6, High= 1044.0, Very High=11.5
Back: Low=334.7, Medium=1039.1, High=650.5, Very High=11.3
Uplight: Low=0.4, High=8.3

BUG Rating : B2-U1-G2