



OUTDOOR LIGHTING SPECIALISTS SINCE 1972

IES ROAD REPORT

PHOTOMETRIC FILENAME : NILAND FR T3 G SHORT CUTOFF AP LED25.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TEST] 1

[TESTDATE] Wed Aug 04 20:06:53 2010

[MANUFAC]

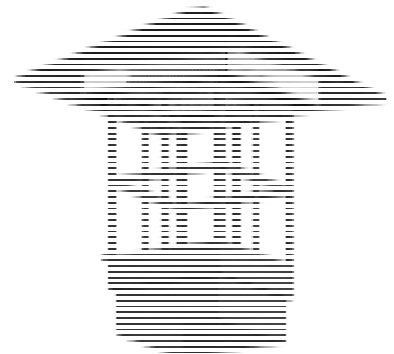
[LUMINAIRE] Niland Fr T3 G Short Cutoff AP

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

[LAMPCAT] 3535 XPG, FRNRDLT, FRNRDRT

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Cutoff Classification (deprecated)	Cutoff
Lumens Per Lamp	47.7 (54 lamps)
Total Lamp Lumens	2575.8
Luminaire Lumens	1181
Total Luminaire Efficiency	46 %
Downward Total Efficiency	46 %
Upward Waste Light Ratio	0.00
Maximum Candela	787.752
Maximum Candela Angle	70H 60V
Maximum Candela At 90 Degrees Vertical	.484 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	84.576 (3.3% Lamp Lumens)
Total Luminaire Watts	21.4
Ballast Factor	1.00



IES ROAD REPORT**PHOTOMETRIC FILENAME : NILAND FR T3 G SHORT CUTOFF AP LED25.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	87.6	3.4	7.4
FM - Front-Medium (30-60)	403.2	15.7	34.1
FH - Front-High (60-80)	333.4	12.9	28.2
FVH - Front-Very High (80-90)	8.2	0.3	0.7
BL - Back-Low (0-30)	69.3	2.7	5.9
BM - Back-Medium (30-60)	173.9	6.8	14.7
BH - Back-High (60-80)	100.0	3.9	8.5
BVH - Back-Very High (80-90)	3.9	0.2	0.3
UL - Uplight-Low (90-100)	0.1	0.0	0.0
UH - Uplight-High (100-180)	1.9	0.1	0.2
Total	1181.5	46.0	100.0
BUG Rating	B0-U1-G0		

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CANDELA TABULATION

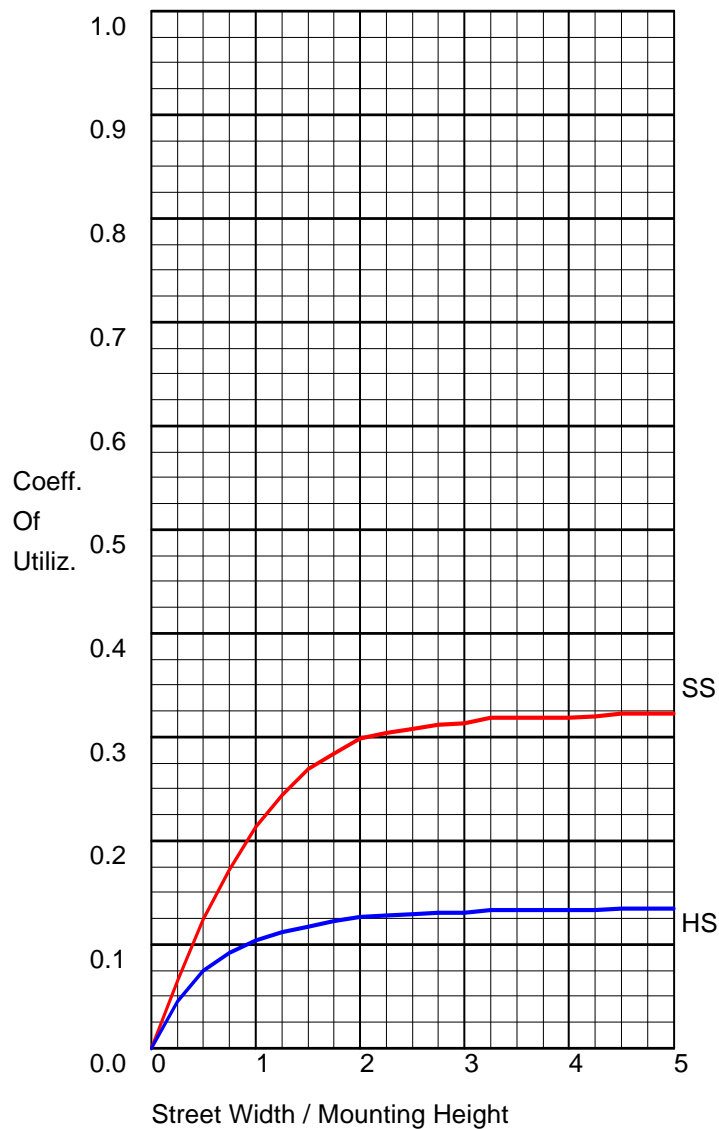
Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	316.120	316.120	316.120	316.120	316.120	316.120	316.120	316.120	316.120	316.120
5	320.004	322.310	329.658	332.894	337.093	331.453	323.751	327.422	326.204	319.525
10	310.311	323.925	330.751	334.607	319.590	310.844	311.807	302.800	299.259	285.705
15	307.445	318.127	318.497	307.652	304.530	252.478	198.273	166.662	150.883	139.440
20	220.280	235.269	260.980	265.940	189.022	118.151	105.430	126.881	142.257	142.785
25	86.203	89.368	95.221	109.993	102.743	134.991	159.200	201.678	228.759	222.096
30	138.009	160.478	132.907	102.764	183.338	243.885	206.954	241.649	244.619	234.791
35	233.551	297.617	262.160	187.232	286.505	278.118	226.050	270.715	282.110	267.278
40	223.249	280.092	299.569	234.046	284.748	295.621	283.834	322.527	334.770	302.349
45	187.303	236.830	247.317	197.827	297.475	371.321	366.192	403.982	401.496	356.113
50	175.685	225.185	222.439	190.561	346.198	461.135	480.090	530.215	538.205	459.449
55	221.346	273.506	269.154	212.801	374.192	563.339	672.587	705.650	700.772	583.485
60	196.114	251.336	244.113	202.684	365.310	590.692	749.766	787.752	779.713	623.989
65	185.280	235.052	225.974	172.792	307.820	536.013	729.865	748.640	741.787	567.222
70	149.181	188.630	182.984	134.686	237.663	436.844	643.749	642.308	651.424	484.871
75	91.060	111.777	117.939	86.148	136.274	257.265	354.699	327.047	350.212	277.623
80	21.381	28.908	36.218	28.038	36.550	69.733	84.576	71.430	77.528	64.626
85	0.881	0.827	0.848	0.903	1.387	2.290	3.584	6.521	9.687	9.045
90	0.098	0.103	0.109	0.076	0.082	0.141	0.272	0.468	0.484	0.310
95	0.065	0.060	0.054	0.033	0.022	0.027	0.044	0.087	0.076	0.027
100	0.044	0.054	0.049	0.038	0.022	0.033	0.044	0.049	0.049	0.038
105	0.054	0.054	0.049	0.049	0.033	0.049	0.054	0.054	0.049	0.038
110	0.060	0.060	0.076	0.054	0.060	0.092	0.092	0.087	0.076	0.065
115	0.125	0.141	0.147	0.158	0.169	0.185	0.196	0.152	0.131	0.109
120	0.239	0.277	0.305	0.354	0.381	0.386	0.381	0.310	0.272	0.228
125	0.468	0.533	0.593	0.631	0.691	0.707	0.702	0.604	0.544	0.413
130	0.615	0.669	0.745	0.832	0.952	1.028	0.957	0.865	0.745	0.620
135	0.680	0.680	0.745	0.897	1.120	1.169	1.110	1.028	0.897	0.751
140	0.647	0.713	0.827	0.914	1.099	1.191	1.207	1.093	0.984	0.881
145	0.691	0.745	0.843	1.012	1.142	1.197	1.186	1.061	0.995	0.816
150	0.647	0.702	0.816	1.001	1.115	1.148	1.033	0.919	0.865	0.772
155	0.577	0.609	0.713	0.827	0.952	0.957	0.919	0.843	0.794	0.702
160	0.457	0.490	0.517	0.544	0.609	0.642	0.702	0.685	0.685	0.631
165	0.250	0.256	0.228	0.234	0.299	0.375	0.359	0.408	0.408	0.370
170	0.087	0.098	0.092	0.054	0.016	0.016	0.076	0.120	0.158	0.163
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									
	100	110	120	130	140	150	160	170	180	
0	316.120	316.120	316.120	316.120	316.120	316.120	316.120	316.120	316.120	
5	312.884	307.815	295.675	264.047	238.810	211.822	197.180	186.465	187.401	
10	277.324	243.988	171.236	138.635	149.121	155.022	166.270	160.603	167.668	
15	135.322	115.671	132.837	159.700	171.361	175.756	183.283	179.879	173.972	
20	128.012	108.785	143.116	170.888	170.975	165.563	173.564	173.259	172.672	
25	190.311	120.642	124.956	153.625	161.011	155.381	148.414	134.604	132.897	
30	185.116	122.747	140.071	158.792	146.804	132.456	129.046	123.095	127.914	
35	205.746	145.336	153.102	154.745	142.507	128.529	125.336	134.664	140.821	
40	219.148	144.144	148.218	145.950	126.707	121.257	125.820	132.538	134.430	
45	232.637	145.667	133.038	121.932	105.816	103.074	108.171	121.252	122.046	
50	272.739	146.614	119.832	102.030	89.526	90.298	93.578	112.076	114.301	
55	313.308	155.963	111.092	90.902	84.315	88.558	93.714	113.969	129.138	

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60	312.095	148.740	103.885	88.259	83.505	87.383	91.109	103.140	117.210
65	262.878	128.551	94.726	82.069	75.423	75.455	78.871	86.573	92.419
70	207.367	95.101	71.925	66.443	61.434	59.122	63.223	69.217	70.065
75	120.757	52.894	42.718	42.990	39.242	37.904	41.810	43.583	43.120
80	33.771	18.868	16.007	17.818	16.507	17.138	17.905	17.563	15.779
85	5.205	3.068	2.752	3.149	2.562	2.475	2.573	2.415	1.996
90	0.386	0.277	0.141	0.114	0.109	0.131	0.196	0.283	0.196
95	0.044	0.033	0.016	0.022	0.027	0.038	0.065	0.092	0.071
100	0.022	0.016	0.016	0.016	0.022	0.033	0.054	0.071	0.065
105	0.027	0.022	0.022	0.027	0.033	0.038	0.049	0.054	0.071
110	0.044	0.027	0.033	0.044	0.044	0.044	0.049	0.054	0.065
115	0.076	0.054	0.054	0.076	0.082	0.087	0.071	0.071	0.076
120	0.158	0.103	0.103	0.125	0.152	0.152	0.120	0.114	0.103
125	0.272	0.190	0.163	0.169	0.201	0.201	0.179	0.163	0.158
130	0.430	0.288	0.218	0.218	0.256	0.267	0.239	0.196	0.185
135	0.544	0.354	0.272	0.261	0.272	0.294	0.277	0.228	0.245
140	0.620	0.495	0.375	0.326	0.332	0.321	0.294	0.272	0.212
145	0.680	0.549	0.506	0.435	0.402	0.354	0.283	0.256	0.245
150	0.674	0.577	0.560	0.582	0.490	0.408	0.315	0.261	0.250
155	0.625	0.582	0.549	0.604	0.604	0.468	0.392	0.354	0.288
160	0.544	0.495	0.500	0.506	0.506	0.549	0.479	0.446	0.419
165	0.326	0.277	0.239	0.348	0.419	0.326	0.332	0.364	0.364
170	0.141	0.092	0.071	0.011	0.022	0.087	0.163	0.212	0.190
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

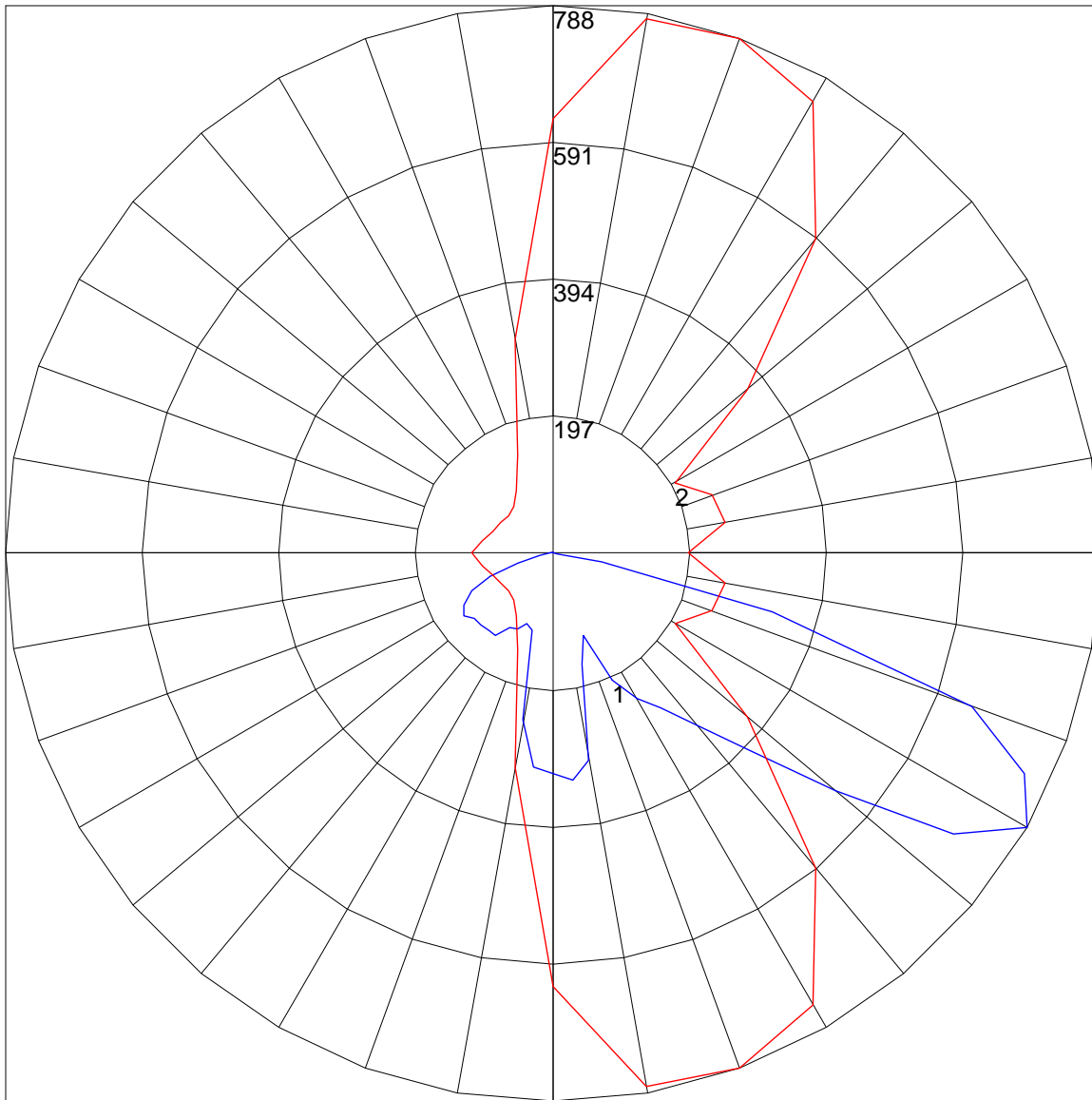
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

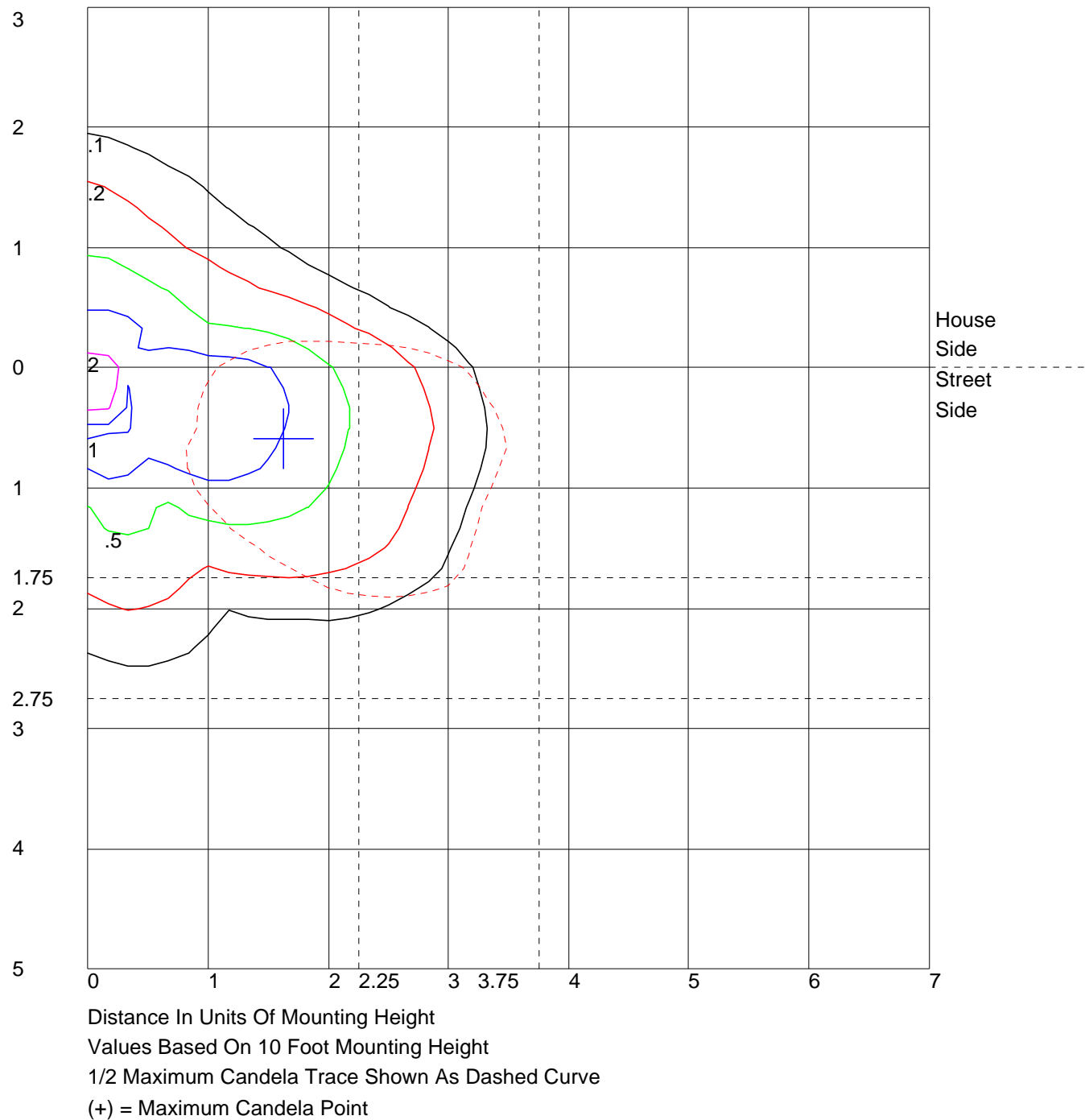
	Lumens	Percent Of Lamp
Downward Street Side	832.3	32.3
Downward House Side	347.1	13.5
Downward Total	1179.4	45.8
Upward Street Side	1.3	0.1
Upward House Side	0.6	0.0
Upward Total	1.9	0.1
Total Flux	1181.3	45.9

POLAR GRAPH

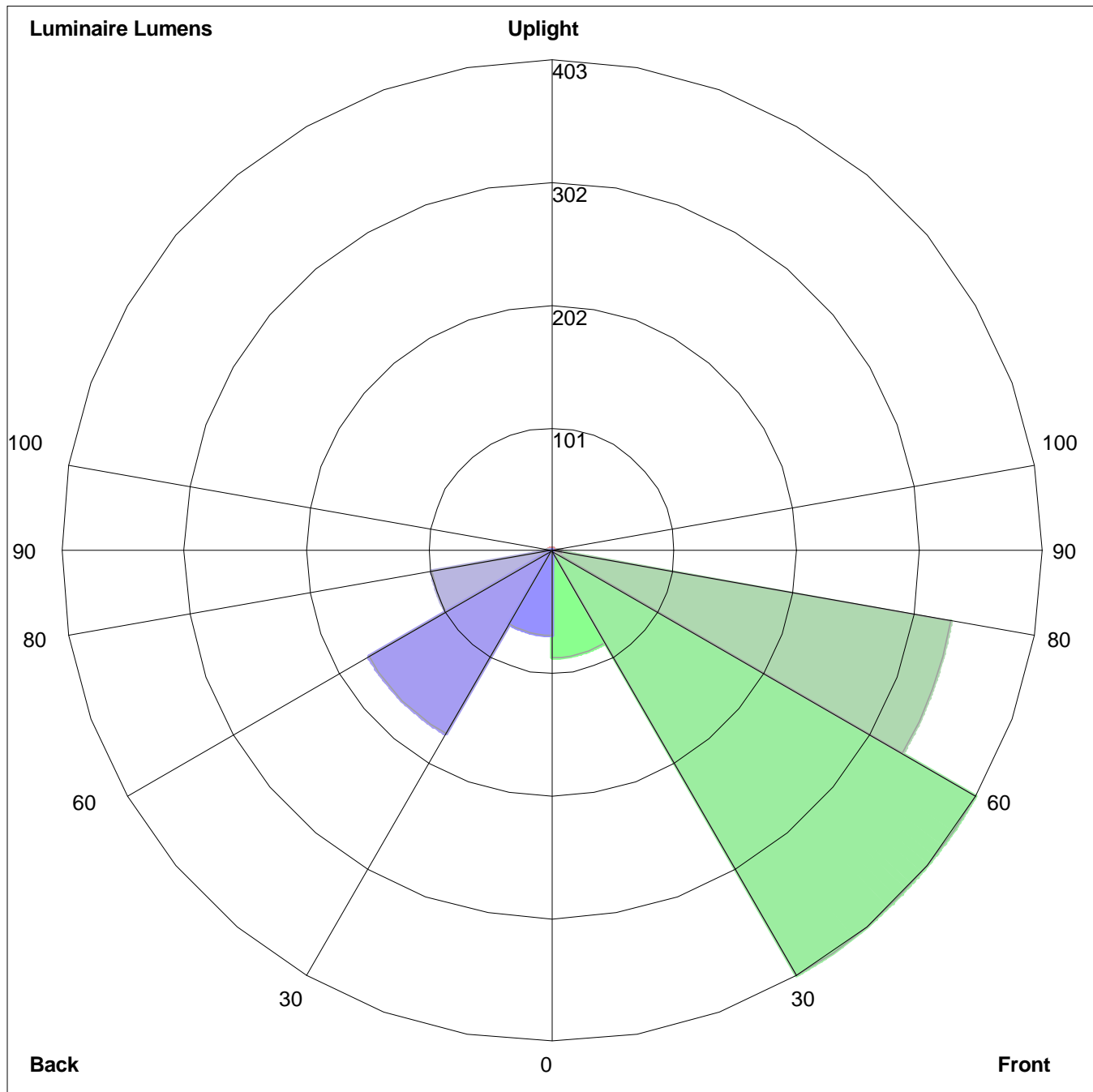


Maximum Candela = 787.752 Located At Horizontal Angle = 70, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=87.6, Medium=403.2, High=333.4, Very High=8.2
 Back: Low=69.3, Medium=173.9, High=100.0, Very High=3.9
 Uplight: Low=0.1, High=1.9

BUG Rating : B0-U1-G0