



OUTDOOR LIGHTING SPECIALISTS SINCE 1972

IES ROAD REPORT

PHOTOMETRIC FILENAME : NILAND FR T3 G 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] Wed Aug 04 20:06:53 2010

[MANUFACTURER]

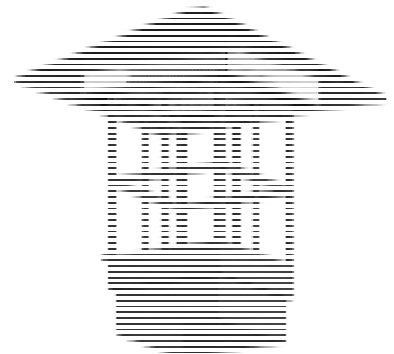
[LUMINAIRE] Niland Fr T3 G Short Cutoff AP

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

[LAMP CATEGORY] 3535 XPG, FRNRDLT, FRNRDRT

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Cutoff Classification (deprecated)	Cutoff
Lumens Per Lamp	213.8 (54 lamps)
Total Lamp Lumens	11545.2
Luminaire Lumens	5295
Total Luminaire Efficiency	46 %
Downward Total Efficiency	46 %
Upward Waste Light Ratio	0.00
Maximum Candela	3530.85
Maximum Candela Angle	70H 60V
Maximum Candela At 90 Degrees Vertical	2.17 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	379.087 (3.3% Lamp Lumens)
Total Luminaire Watts	124.83
Ballast Factor	1.00



IES ROAD REPORT**PHOTOMETRIC FILENAME : NILAND FR T3 G SHORT CUTOFF AP LED125.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	392.7	3.4	7.4
FM - Front-Medium (30-60)	1807.1	15.7	34.1
FH - Front-High (60-80)	1494.3	12.9	28.2
FVH - Front-Very High (80-90)	36.6	0.3	0.7
BL - Back-Low (0-30)	310.4	2.7	5.9
BM - Back-Medium (30-60)	779.4	6.8	14.7
BH - Back-High (60-80)	448.3	3.9	8.5
BVH - Back-Very High (80-90)	17.4	0.2	0.3
UL - Uplight-Low (90-100)	0.4	0.0	0.0
UH - Uplight-High (100-180)	8.3	0.1	0.2
Total	5294.9	46.0	100.0
BUG Rating	B1-U1-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : NILAND FR T3 G SHORT CUTOFF AP LED125.IES

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	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909
5	1434.315	1444.651	1477.587	1492.092	1510.912	1485.632	1451.112	1467.567	1462.107	1432.170
10	1390.872	1451.892	1482.487	1499.771	1432.462	1393.261	1397.576	1357.205	1341.335	1280.583
15	1378.025	1425.904	1427.562	1378.951	1364.958	1131.655	888.697	747.009	676.287	624.994
20	987.333	1054.521	1169.758	1191.992	847.229	529.576	472.555	568.704	637.622	639.987
25	386.376	400.565	426.796	493.008	460.512	605.052	713.562	903.958	1025.340	995.476
30	618.583	719.291	595.715	460.609	821.754	1093.136	927.606	1083.117	1096.428	1052.375
35	1046.817	1333.973	1175.049	839.209	1284.167	1246.575	1013.199	1213.396	1264.469	1197.989
40	1000.644	1255.425	1342.725	1049.036	1276.293	1325.026	1272.197	1445.627	1500.503	1355.182
45	839.526	1061.517	1108.519	886.698	1333.339	1664.327	1641.338	1810.721	1799.580	1596.164
50	787.453	1009.323	997.012	854.129	1551.722	2066.891	2151.850	2376.523	2412.336	2059.333
55	992.112	1225.902	1206.399	953.813	1677.199	2524.989	3014.658	3162.855	3140.988	2615.287
60	879.019	1126.535	1094.160	908.469	1637.389	2647.589	3360.590	3530.850	3494.819	2796.835
65	830.457	1053.546	1012.858	774.484	1379.707	2402.511	3271.389	3355.544	3324.827	2542.395
70	668.656	845.474	820.169	603.687	1065.247	1958.016	2885.402	2878.942	2919.801	2173.279
75	408.147	501.005	528.626	386.133	610.806	1153.108	1589.826	1465.885	1569.714	1244.357
80	95.832	129.572	162.337	125.672	163.824	312.558	379.087	320.164	347.493	289.667
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

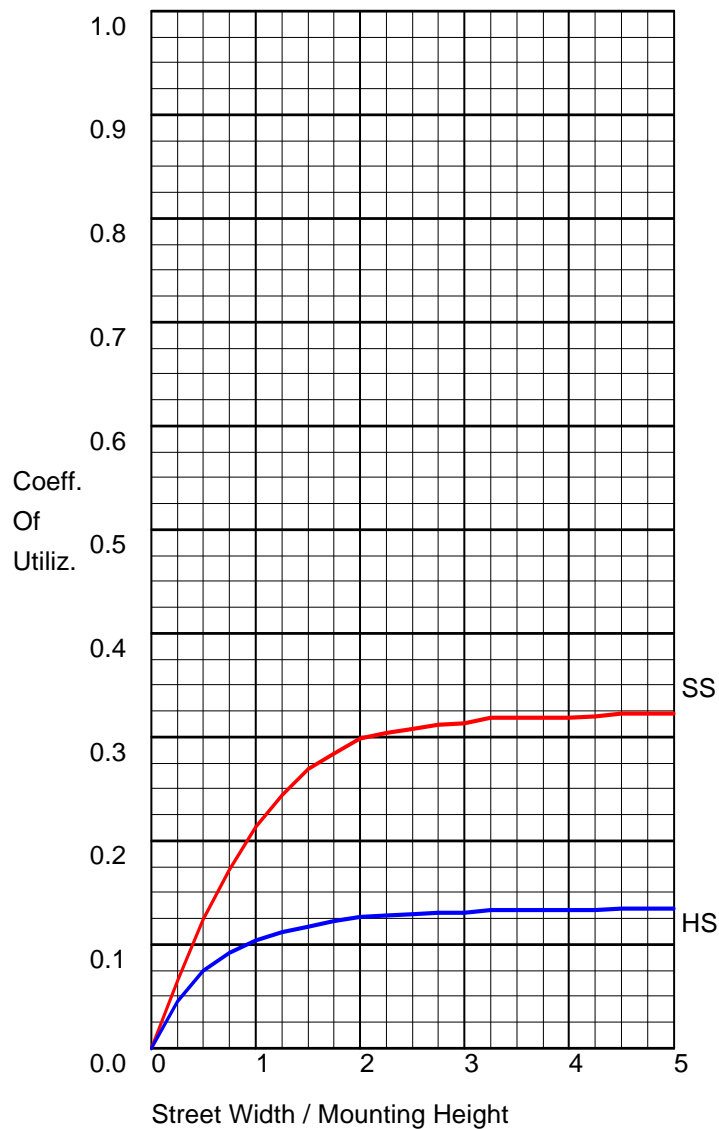
Vert. Angles	Horizontal Angles								
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
0	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909	1416.909
5	1402.403	1379.682	1325.269	1183.508	1070.391	949.425	883.797	835.772	839.965
10	1243.016	1093.600	767.511	621.386	668.388	694.839	745.254	719.851	751.519
15	606.540	518.460	595.399	715.804	768.072	787.770	821.510	806.249	779.774
20	573.775	487.596	641.474	765.951	766.341	742.085	777.946	776.580	773.947
25	853.007	540.742	560.074	688.574	721.680	696.448	665.219	603.322	595.667
30	829.726	550.176	627.822	711.733	658.003	593.692	578.407	551.736	573.336
35	922.194	651.421	686.233	693.596	638.744	576.091	561.780	603.590	631.186
40	982.263	646.082	664.341	654.175	567.924	543.497	563.950	594.058	602.541
45	1042.721	652.908	596.301	546.519	474.286	461.999	484.842	543.472	547.031
50	1222.465	657.150	537.109	457.318	401.272	404.734	419.434	502.345	512.316
55	1404.305	699.056	497.933	407.440	377.917	396.932	420.043	510.829	578.821

IES ROAD REPORT
PHOTOMETRIC FILENAME : NILAND FR T3 G SHORT CUTOFF AP LED125.IES

CANDELA TABULATION - (Cont.)

60	1398.868	666.682	465.631	395.592	374.285	391.667	408.366	462.291	525.359
65	1178.267	576.188	424.578	367.849	338.058	338.204	353.514	388.034	414.241
70	929.459	426.260	322.383	297.809	275.356	264.995	283.377	310.242	314.045
75	541.254	237.082	191.470	192.688	175.892	169.894	187.398	195.346	193.274
80	151.367	84.569	71.746	79.864	73.989	76.817	80.254	78.718	70.722
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

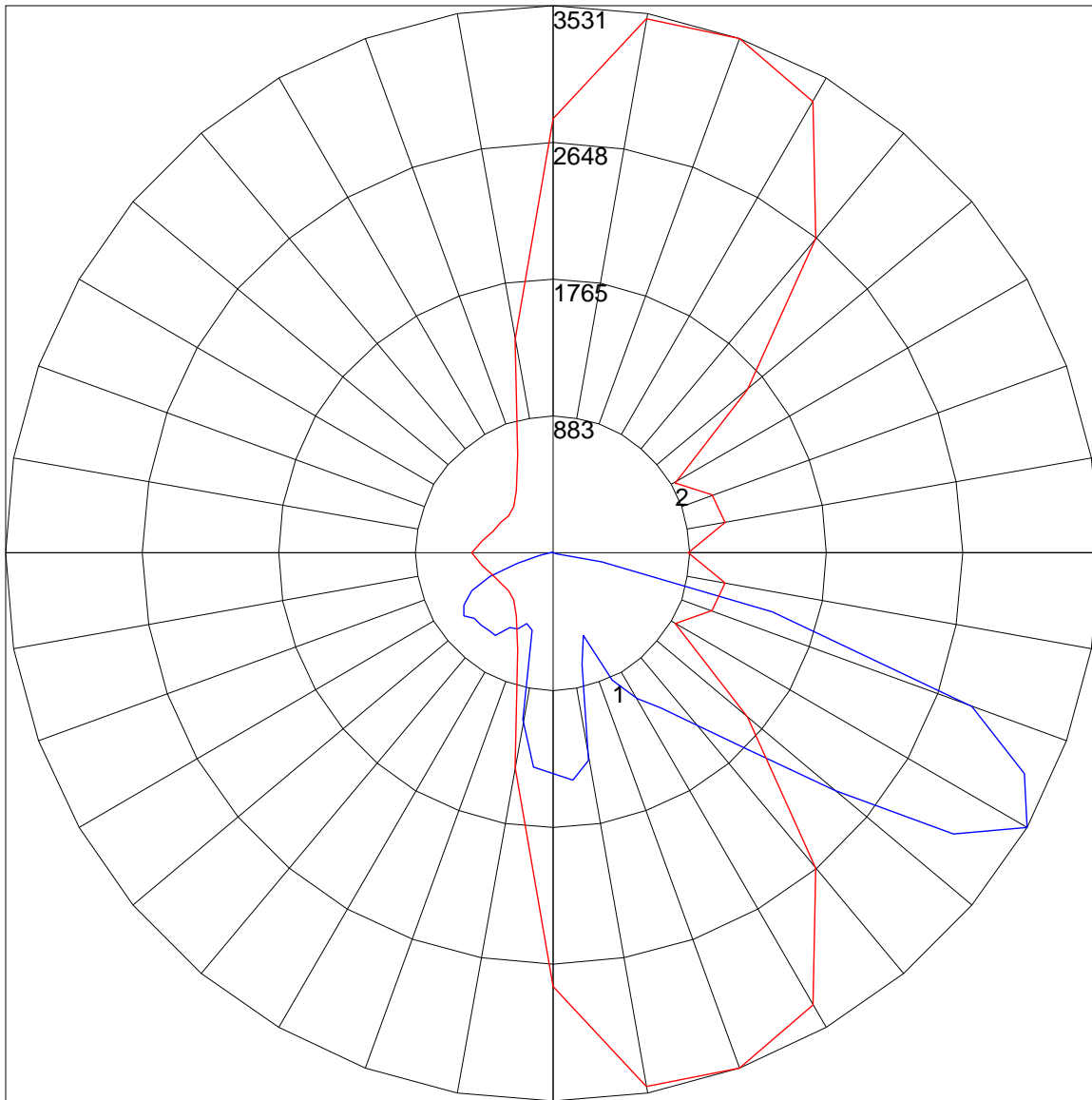
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

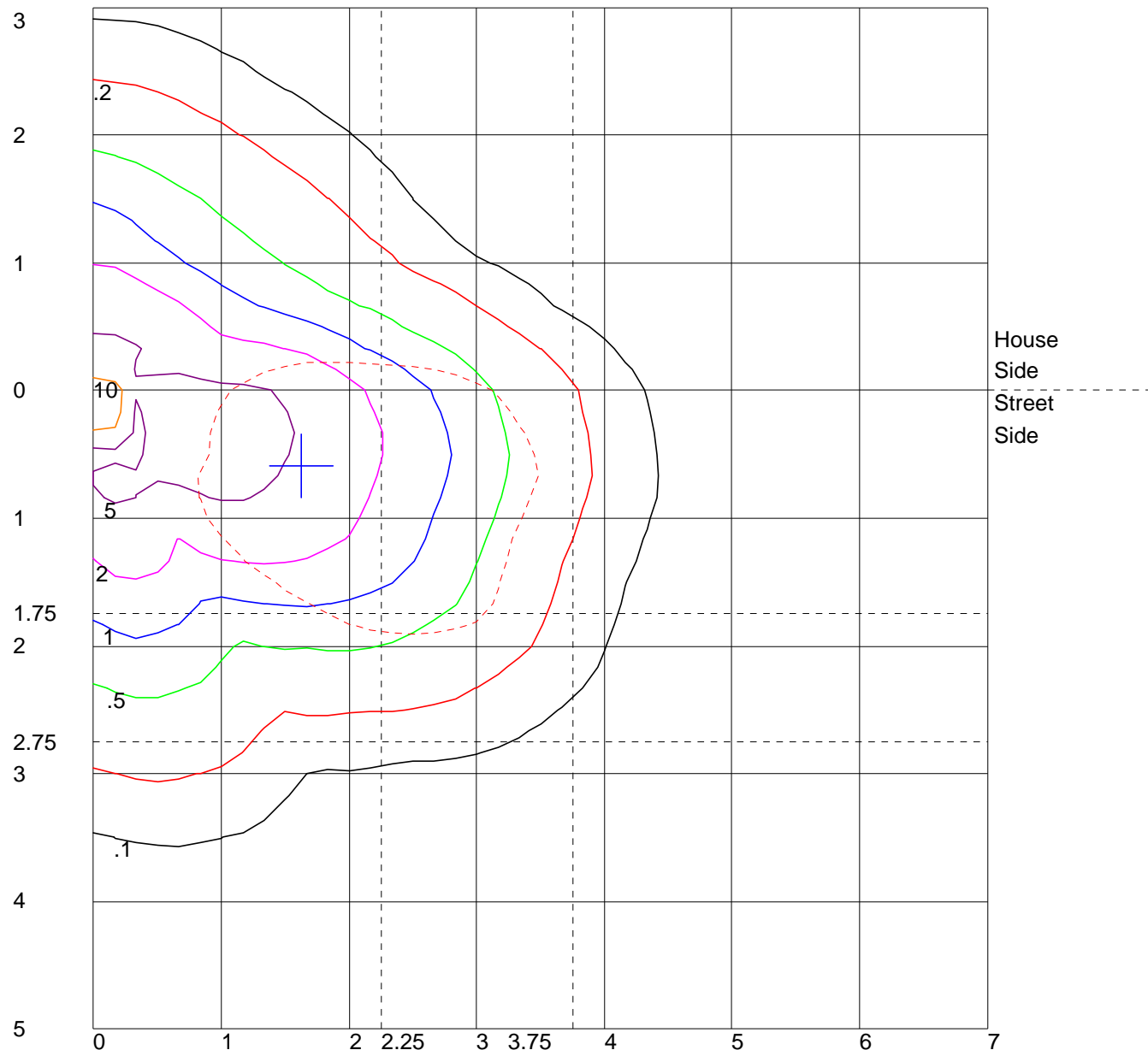
	Lumens	Percent Of Lamp
Downward Street Side	3730.6	32.3
Downward House Side	1555.6	13.5
Downward Total	5286.2	45.8
Upward Street Side	5.9	0.1
Upward House Side	2.8	0.0
Upward Total	8.7	0.1
Total Flux	5294.9	45.9

POLAR GRAPH



Maximum Candela = 3530.85 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



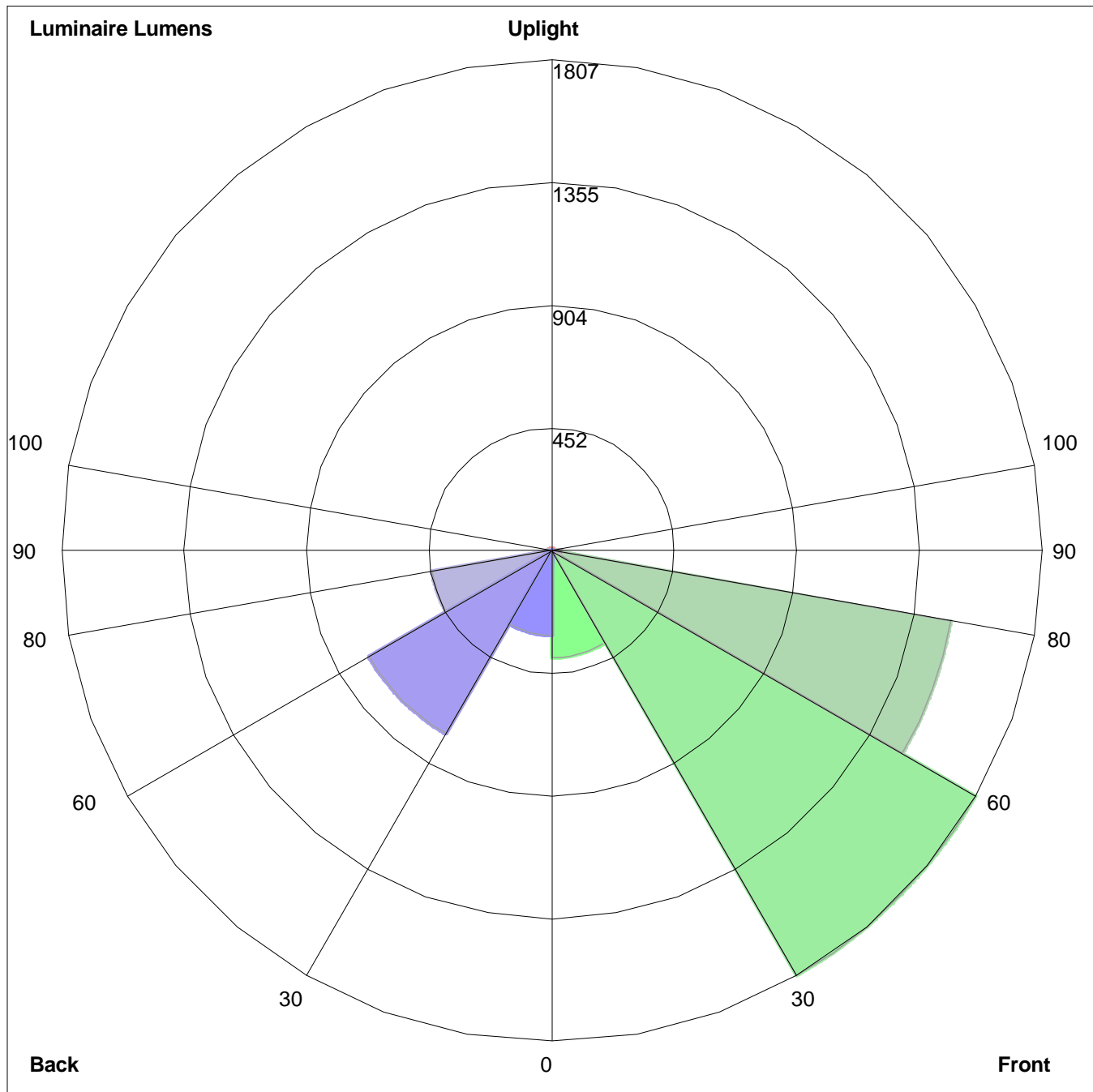
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=392.7, Medium=1807.1, High=1494.3, Very High=36.6
Back: Low=310.4, Medium=779.4, High=448.3, Very High=17.4
Uplight: Low=0.4, High=8.3

BUG Rating : B1-U1-G1