



OUTDOOR LIGHTING SPECIALISTS SINCE 1972

IES ROAD REPORT

PHOTOMETRIC FILENAME : NILAND FR T3 G SHORT CUTOFF AP LED75.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]

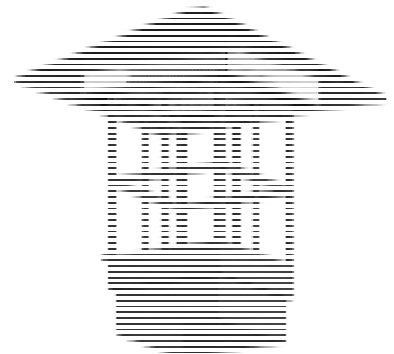
[LUMINAIRE] Niland Fr T3 G Short Cutoff AP

[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	149.9 (54 lamps)
Total Lamp Lumens	8094.6
Luminaire Lumens	3712
Total Luminaire Efficiency	46 %
Downward Total Efficiency	46 %
Upward Waste Light Ratio	0.00
Maximum Candela	2475.561
Maximum Candela Angle	70H 60V
Maximum Candela At 90 Degrees Vertical	1.521 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	265.787 (3.3% Lamp Lumens)
Total Luminaire Watts	78.91
Ballast Factor	1.00



IES ROAD REPORT**PHOTOMETRIC FILENAME : NILAND FR T3 G SHORT CUTOFF AP LED75.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	275.3	3.4	7.4
FM - Front-Medium (30-60)	1267.0	15.7	34.1
FH - Front-High (60-80)	1047.7	12.9	28.2
FVH - Front-Very High (80-90)	25.6	0.3	0.7
BL - Back-Low (0-30)	217.7	2.7	5.9
BM - Back-Medium (30-60)	546.4	6.8	14.7
BH - Back-High (60-80)	314.3	3.9	8.5
BVH - Back-Very High (80-90)	12.2	0.2	0.3
UL - Uplight-Low (90-100)	0.3	0.0	0.0
UH - Uplight-High (100-180)	5.8	0.1	0.2
Total	3712.3	46.0	100.0
BUG Rating	B1-U1-G1		

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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	993.427	993.427	993.427	993.427	993.427	993.427	993.427	993.427	993.427	993.427
5	1005.631	1012.879	1035.970	1046.140	1059.336	1041.611	1017.408	1028.945	1025.117	1004.127
10	975.173	1017.955	1039.406	1051.524	1004.332	976.848	979.873	951.568	940.441	897.847
15	966.165	999.734	1000.897	966.814	957.003	793.429	623.086	523.745	474.160	438.198
20	692.242	739.349	820.145	835.733	594.012	371.298	331.319	398.731	447.052	448.710
25	270.897	280.845	299.237	345.660	322.875	424.216	500.295	633.786	718.889	697.951
30	433.703	504.311	417.670	322.944	576.151	766.423	650.366	759.398	768.731	737.845
35	733.948	935.279	823.854	588.389	900.359	874.003	710.377	850.740	886.549	839.938
40	701.575	880.207	941.415	735.503	894.838	929.006	891.967	1013.562	1052.037	950.149
45	588.611	744.254	777.209	621.685	934.835	1166.898	1150.780	1269.538	1261.727	1119.108
50	552.102	707.660	699.028	598.849	1087.948	1449.145	1508.712	1666.235	1691.344	1443.846
55	695.592	859.508	845.834	668.740	1175.923	1770.328	2113.646	2217.551	2202.219	1833.638
60	616.301	789.840	767.141	636.948	1148.011	1856.286	2356.187	2475.561	2450.298	1960.926
65	582.253	738.665	710.138	543.008	967.344	1684.456	2293.646	2352.649	2331.113	1782.532
70	468.810	592.782	575.040	423.259	746.869	1372.810	2023.022	2018.493	2047.140	1523.736
75	286.161	351.266	370.632	270.727	428.250	808.471	1114.664	1027.766	1100.563	872.447
80	67.190	90.846	113.818	88.111	114.861	219.142	265.787	224.474	243.635	203.092
85	2.769	2.598	2.666	2.837	4.359	7.196	11.264	20.494	30.442	28.425
90	0.308	0.325	0.342	0.239	0.256	0.444	0.855	1.470	1.521	0.974
95	0.205	0.188	0.171	0.103	0.068	0.085	0.137	0.273	0.239	0.085
100	0.137	0.171	0.154	0.120	0.068	0.103	0.137	0.154	0.154	0.120
105	0.171	0.171	0.154	0.154	0.103	0.154	0.171	0.171	0.154	0.120
110	0.188	0.188	0.239	0.171	0.188	0.291	0.291	0.273	0.239	0.205
115	0.393	0.444	0.461	0.496	0.530	0.581	0.615	0.479	0.410	0.342
120	0.752	0.872	0.957	1.111	1.196	1.214	1.196	0.974	0.855	0.718
125	1.470	1.675	1.863	1.983	2.171	2.222	2.205	1.897	1.709	1.299
130	1.931	2.102	2.342	2.615	2.991	3.230	3.008	2.718	2.342	1.949
135	2.137	2.137	2.342	2.820	3.521	3.675	3.487	3.230	2.820	2.359
140	2.034	2.239	2.598	2.872	3.453	3.743	3.795	3.436	3.094	2.769
145	2.171	2.342	2.649	3.179	3.589	3.760	3.726	3.333	3.128	2.564
150	2.034	2.205	2.564	3.145	3.504	3.606	3.248	2.889	2.718	2.427
155	1.812	1.914	2.239	2.598	2.991	3.008	2.889	2.649	2.495	2.205
160	1.436	1.538	1.624	1.709	1.914	2.017	2.205	2.154	2.154	1.983
165	0.786	0.803	0.718	0.735	0.940	1.179	1.128	1.282	1.282	1.162
170	0.273	0.308	0.291	0.171	0.051	0.051	0.239	0.376	0.496	0.513
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

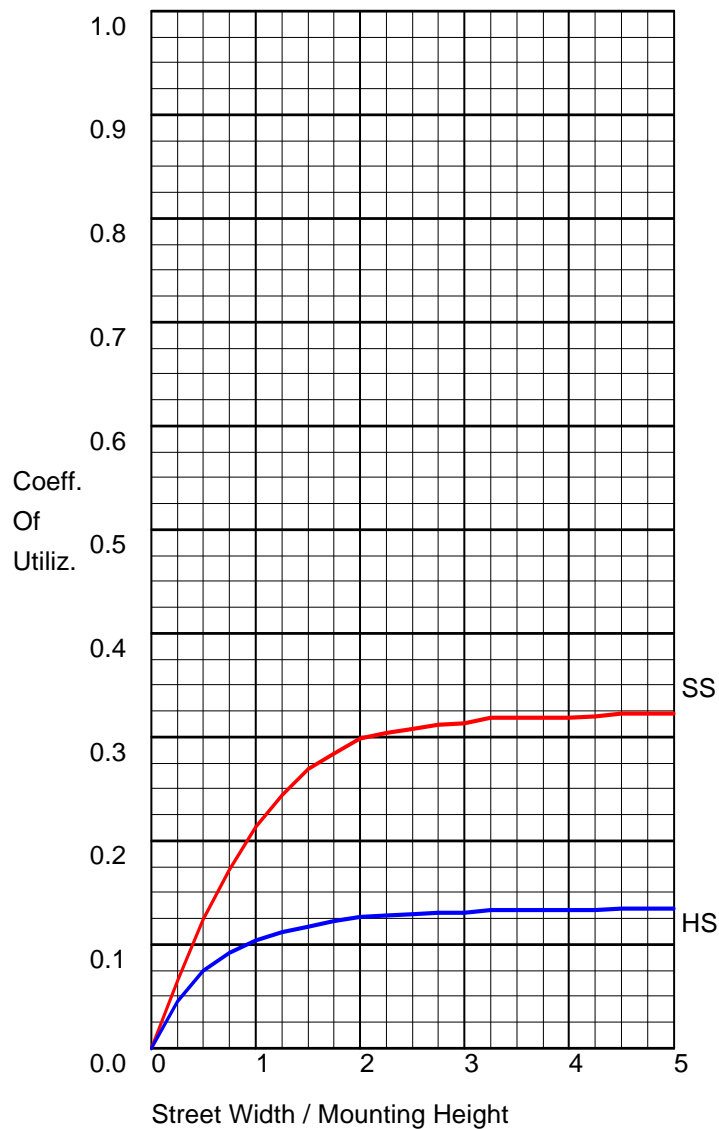
Vert. Angles	Horizontal Angles								
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
0	993.427	993.427	993.427	993.427	993.427	993.427	993.427	993.427	993.427
5	983.257	967.327	929.177	829.785	750.476	665.664	619.651	585.979	588.919
10	871.507	766.748	538.120	435.668	468.622	487.168	522.515	504.704	526.907
15	425.259	363.504	417.448	501.867	538.513	552.324	575.980	565.280	546.717
20	402.287	341.865	449.752	537.026	537.300	520.293	545.436	544.478	542.632
25	598.063	379.127	392.681	482.775	505.986	488.296	466.400	423.003	417.636
30	581.740	385.741	440.181	499.013	461.341	416.251	405.534	386.835	401.979
35	646.571	456.726	481.134	486.296	447.838	403.910	393.877	423.191	442.539
40	688.687	452.983	465.785	458.657	398.185	381.058	395.398	416.508	422.456
45	731.076	457.769	418.080	383.177	332.533	323.918	339.934	381.041	383.536
50	857.098	460.743	376.580	320.636	281.341	283.768	294.075	352.206	359.197
55	984.591	490.125	349.112	285.665	264.966	278.298	294.502	358.154	405.825

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CANDELA TABULATION - (Cont.)

60	980.779	467.426	326.465	277.358	262.420	274.606	286.315	324.123	368.341
65	826.110	403.979	297.681	257.907	237.020	237.123	247.857	272.060	290.434
70	651.665	298.861	226.030	208.801	193.059	185.794	198.682	217.518	220.184
75	379.485	166.224	134.244	135.098	123.322	119.117	131.389	136.961	135.509
80	106.127	59.294	50.303	55.995	51.875	53.858	56.268	55.191	49.585
85	16.357	9.640	8.649	9.896	8.051	7.777	8.085	7.589	6.273
90	1.214	0.872	0.444	0.359	0.342	0.410	0.615	0.889	0.615
95	0.137	0.103	0.051	0.068	0.085	0.120	0.205	0.291	0.222
100	0.068	0.051	0.051	0.051	0.068	0.103	0.171	0.222	0.205
105	0.085	0.068	0.068	0.085	0.103	0.120	0.154	0.171	0.222
110	0.137	0.085	0.103	0.137	0.137	0.137	0.154	0.171	0.205
115	0.239	0.171	0.171	0.239	0.256	0.273	0.222	0.222	0.239
120	0.496	0.325	0.325	0.393	0.479	0.479	0.376	0.359	0.325
125	0.855	0.598	0.513	0.530	0.632	0.632	0.564	0.513	0.496
130	1.350	0.906	0.684	0.684	0.803	0.838	0.752	0.615	0.581
135	1.709	1.111	0.855	0.820	0.855	0.923	0.872	0.718	0.769
140	1.949	1.555	1.179	1.026	1.043	1.008	0.923	0.855	0.667
145	2.137	1.726	1.590	1.367	1.265	1.111	0.889	0.803	0.769
150	2.119	1.812	1.761	1.829	1.538	1.282	0.991	0.820	0.786
155	1.966	1.829	1.726	1.897	1.897	1.470	1.231	1.111	0.906
160	1.709	1.555	1.573	1.590	1.590	1.726	1.504	1.402	1.316
165	1.026	0.872	0.752	1.094	1.316	1.026	1.043	1.145	1.145
170	0.444	0.291	0.222	0.034	0.068	0.273	0.513	0.667	0.598
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

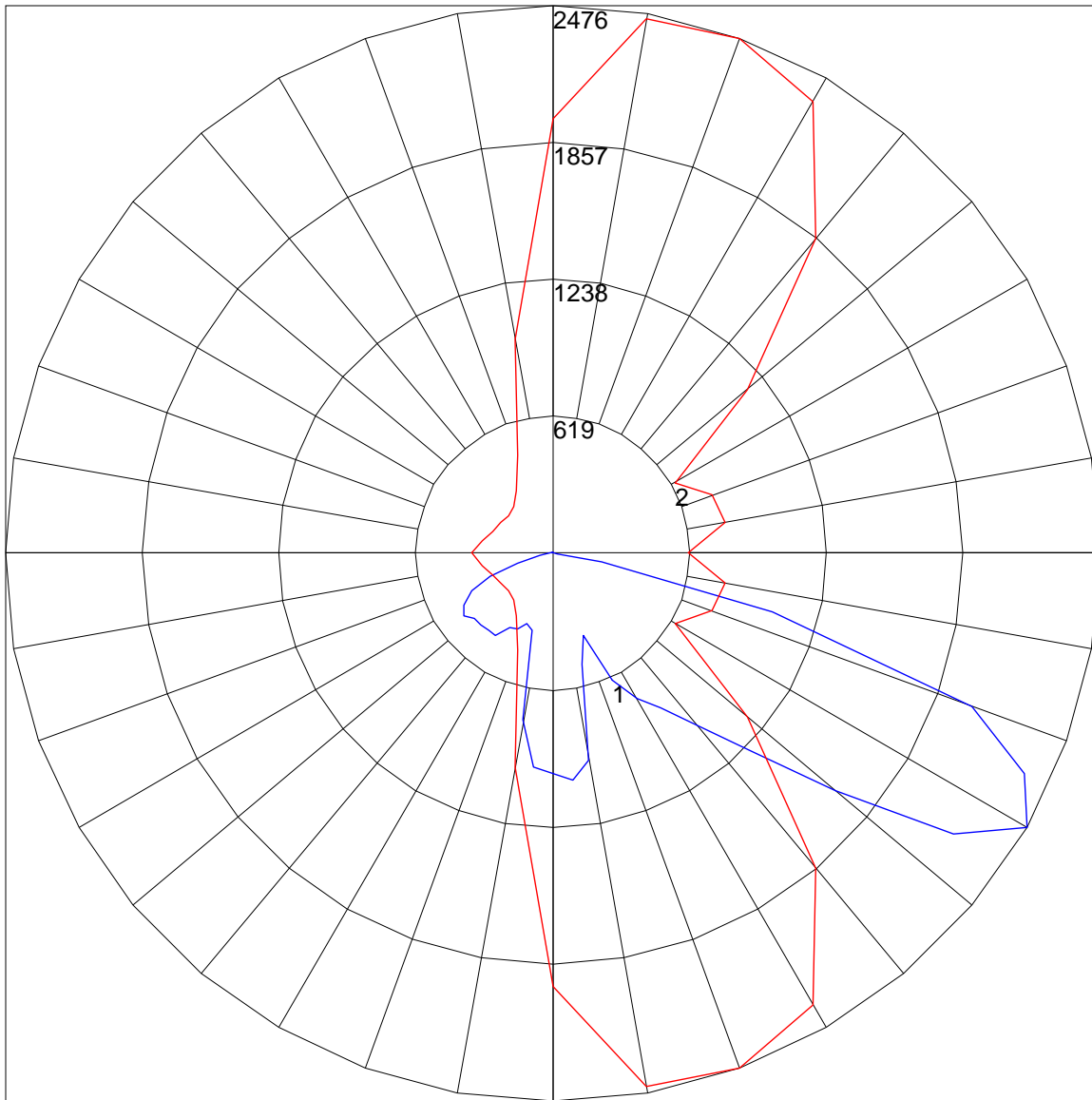
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

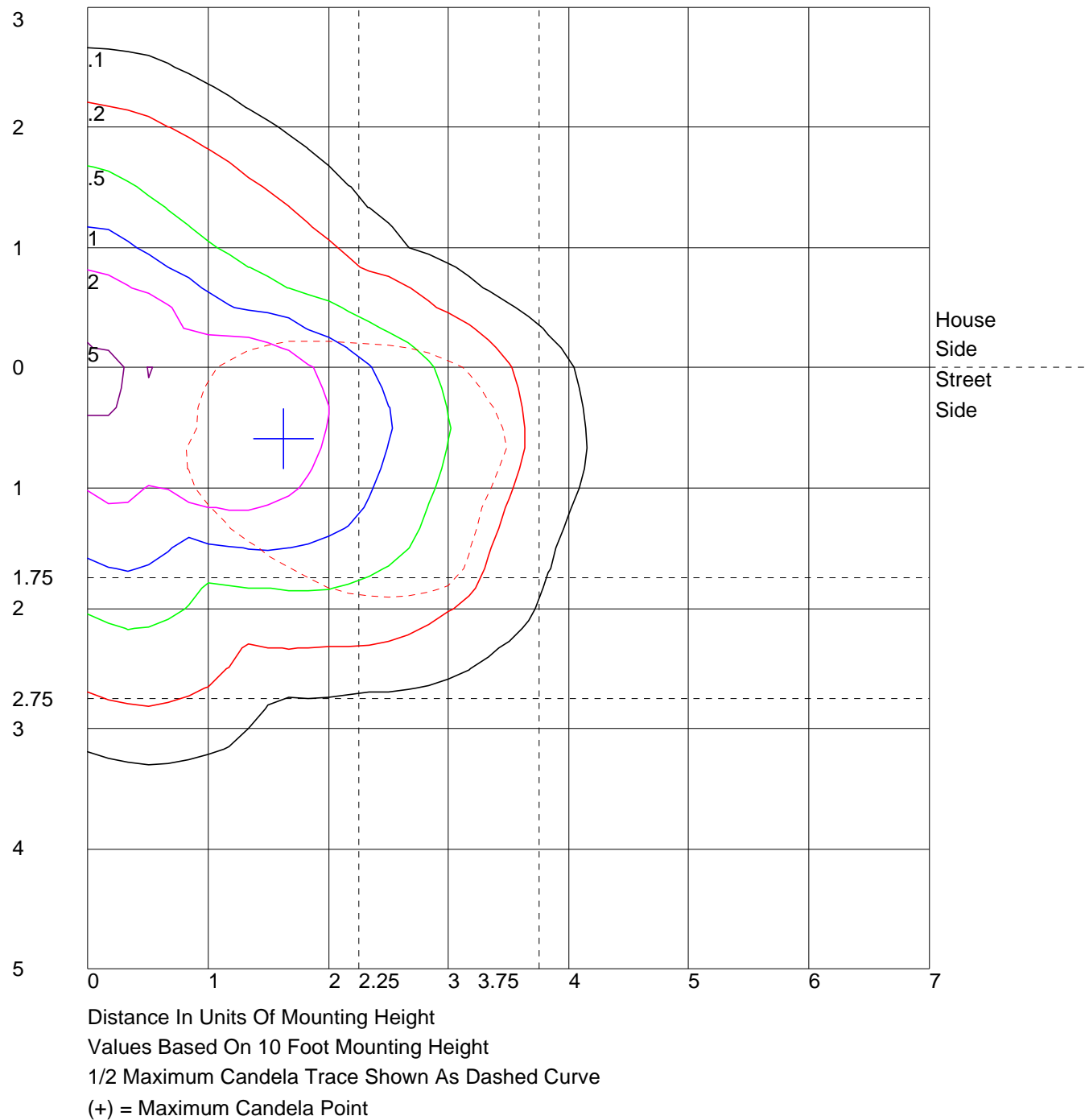
	Lumens	Percent Of Lamp
Downward Street Side	2615.6	32.3
Downward House Side	1090.6	13.5
Downward Total	3706.3	45.8
Upward Street Side	4.1	0.1
Upward House Side	2.0	0.0
Upward Total	6.1	0.1
Total Flux	3712.4	45.9

POLAR GRAPH

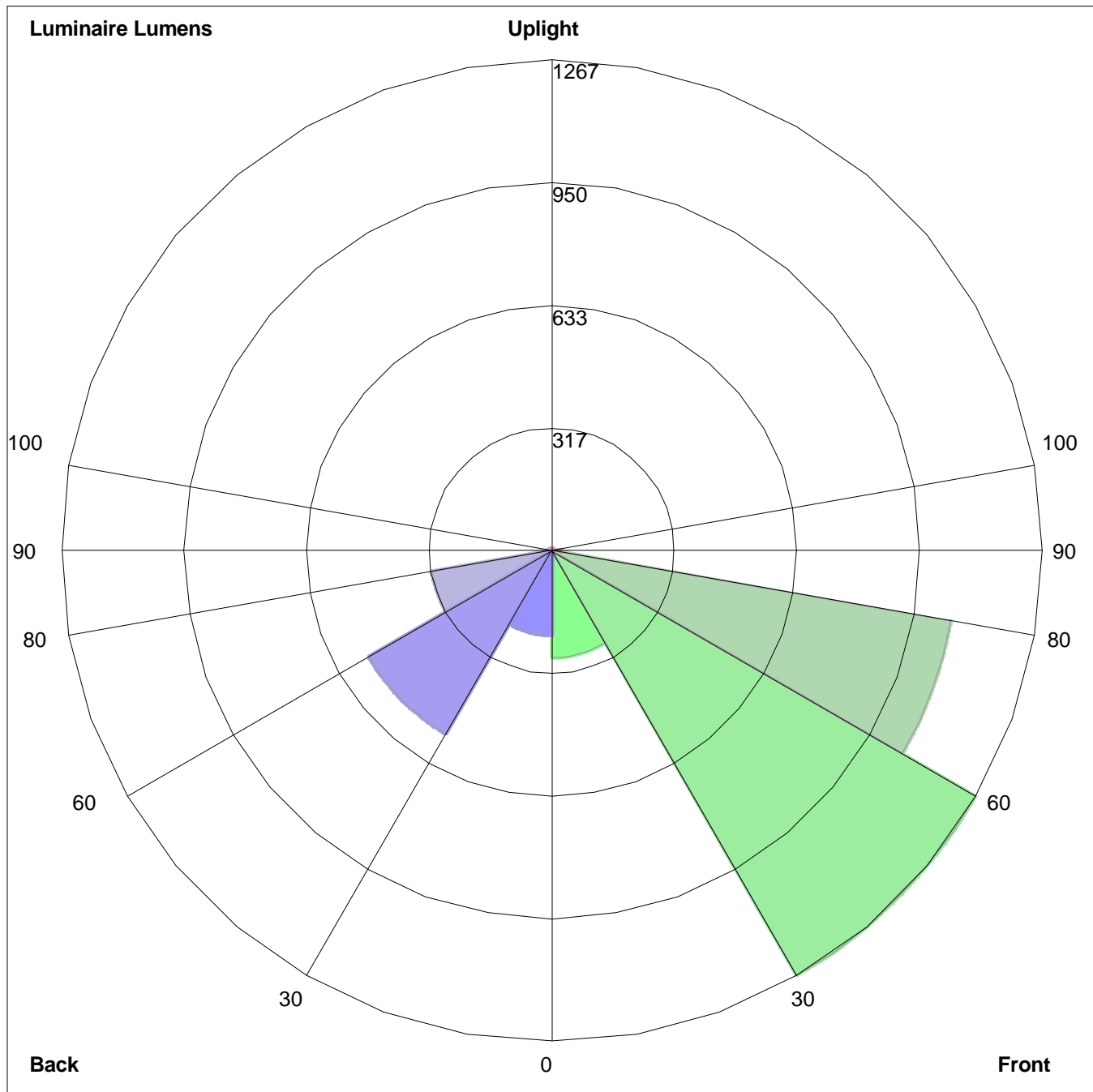


Maximum Candela = 2475.561 Located At Horizontal Angle = 70, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=275.3, Medium= 1267.0, High=1047.7, Very High=25.6
Back: Low=217.7, Medium=546.4, High=314.3, Very High=12.2
Uplight: Low=0.3, High=5.8

BUG Rating : B1-U1-G1