



IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR8-4L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB] Shenzhen Anbotek Pengcheng Compliance Laboratory Limited
[TESTDATE] 2020-11-9
[ISSUE DATE] 2022-09-20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CBR8-4L-30
[TEST PROCEDURE] PROCEDURE IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[FACTORED] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4192
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	38
Ballast Factor	1.00
Upward Waste Light Ratio	0.09
Maximum Candela	1955.86
Maximum Candela Angle	90H 53V
Maximum Candela (<90 Degrees Vertical)	1955.86
Maximum Candela Angle (<90 Degrees Vertical)	90H 53V
Maximum Candela At 90 Degrees Vertical	89.711 (2.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	334.919 (8.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	71.6	N.A.	1.7
FM - Front-Medium (30-60)	1110.0	N.A.	26.5
FH - Front-High (60-80)	573.5	N.A.	13.7
FVH - Front-Very High (80-90)	63.8	N.A.	1.5
BL - Back-Low (0-30)	65.6	N.A.	1.6
BM - Back-Medium (30-60)	1137.1	N.A.	27.1
BH - Back-High (60-80)	704.4	N.A.	16.8
BVH - Back-Very High (80-90)	79.3	N.A.	1.9
UL - Uplight-Low (90-100)	107.6	N.A.	2.6
UH - Uplight-High (100-180)	278.7	N.A.	6.6
Total	4191.6	N.A.	100.0
BUG Rating	B2-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.171	0.342	0.342	0.000	0.000	0.000	0.000	0.000
6	0.000	0.342	0.684	0.854	0.854	0.342	0.513	0.000	0.000	0.342
7	0.684	1.025	1.367	1.367	1.709	1.196	1.025	0.684	0.684	1.025
8	1.538	2.221	2.221	2.221	2.563	1.880	1.538	1.196	0.684	2.221
9	2.563	2.734	3.076	2.905	3.247	2.392	2.392	2.051	1.367	0.342
10	3.418	3.759	4.101	3.759	4.101	3.247	3.076	2.734	2.051	1.025
11	4.443	4.614	4.785	4.785	5.126	3.930	3.930	3.247	2.734	1.709
12	5.297	5.468	5.810	6.152	6.152	5.126	4.614	4.101	3.418	2.563
13	6.493	6.835	7.006	7.348	7.177	6.152	5.468	5.126	4.272	3.076
14	7.519	8.202	8.544	8.715	8.715	7.348	6.835	5.981	5.126	3.759
15	9.056	9.398	10.082	10.936	11.620	8.715	8.202	7.177	5.981	4.785
16	10.594	10.936	11.961	13.328	15.037	11.278	9.569	8.544	7.006	5.639
17	12.132	12.645	14.183	17.088	19.822	14.695	11.620	10.082	8.544	6.493
18	14.012	15.379	17.600	19.800	21.837	19.651	14.183	12.474	9.911	7.689
19	17.429	27.682	128.329	151.739	207.274	88.856	32.979	14.866	11.791	9.227
20	22.556	125.253	157.549	217.698	231.197	175.662	130.892	30.245	14.012	10.936
21	90.223	177.371	207.958	270.669	288.099	233.760	187.111	105.944	19.138	12.987
22	167.801	227.608	241.449	323.300	334.407	285.365	264.176	186.427	116.880	16.746
23	217.527	268.790	312.534	336.799	362.772	319.199	303.649	252.557	176.858	98.596
24	263.151	311.167	331.673	407.029	427.193	354.570	327.401	306.554	246.576	172.073
25	325.692	345.855	387.720	423.946	429.073	393.701	384.986	333.552	305.528	230.513
26	359.696	364.310	414.548	444.281	477.943	412.498	403.612	360.209	341.925	265.201
27	379.860	405.662	434.370	459.318	492.981	442.230	424.972	411.814	390.113	294.592
28	403.270	412.839	477.773	483.241	527.498	475.551	476.918	442.914	405.150	332.185
29	430.269	440.180	521.005	529.548	560.135	514.169	525.960	461.710	436.762	363.114
30	444.110	475.380	521.859	570.901	576.540	538.776	547.149	496.398	464.786	376.442
31	475.380	515.195	532.282	578.590	618.405	580.299	556.547	527.840	505.796	416.428
32	511.606	536.213	565.262	612.082	617.550	594.823	571.926	543.219	512.973	437.958
33	544.586	569.363	579.786	629.682	657.706	611.569	588.330	596.874	528.181	485.804
34	565.262	591.406	615.500	647.625	663.516	634.125	634.638	598.925	573.806	517.929
35	602.855	613.449	620.626	669.668	672.914	659.586	652.238	622.676	565.433	551.933
36	623.360	628.828	654.630	679.237	697.350	684.534	672.402	644.549	603.880	583.204
37	629.512	638.910	680.946	718.709	713.070	691.882	685.901	675.136	618.746	598.754
38	646.599	671.718	715.463	719.564	746.904	717.342	712.729	688.464	646.257	614.303
39	654.460	682.996	703.843	757.157	759.207	719.564	737.848	696.154	707.432	639.081
40	694.787	717.513	731.013	755.790	775.099	740.923	741.094	729.646	709.482	663.174
41	719.393	713.070	768.093	780.054	805.515	769.118	745.537	755.106	718.880	680.604
42	754.423	735.455	768.435	829.950	837.298	796.800	801.243	748.784	740.753	685.559
43	770.485	745.708	800.389	858.658	863.613	807.395	808.762	784.839	748.955	698.546
44	795.262	753.056	822.261	881.726	881.043	825.337	824.312	809.616	788.940	744.683
45	797.142	777.320	845.671	912.313	922.908	865.664	861.905	837.469	792.357	760.062
46	817.818	778.687	860.879	955.716	973.658	894.371	891.979	861.905	858.487	811.154
47	865.493	809.616	931.964	1020.137	1036.541	944.951	927.009	893.004	881.726	814.572
48	928.547	848.063	992.626	1100.278	1108.138	1000.486	964.943	922.224	889.587	852.164
49	1008.859	967.507	1063.710	1206.734	1203.317	1062.343	1017.232	975.538	920.515	883.606
50	1109.335	1119.587	1141.630	1363.429	1342.069	1183.324	1101.816	1043.034	955.887	913.509
51	1216.304	1274.402	1315.583	1554.811	1568.652	1311.653	1185.204	1106.771	1015.010	950.077
52	1359.841	1455.874	1508.504	1809.760	1780.540	1466.297	1301.401	1254.238	1089.342	1028.168

IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR8-4L-30.IES

CANDELA TABULATION - (Cont.)

53	1589.499	1599.410	1643.326	1923.735	1955.860	1663.318	1456.044	1372.315	1168.629	1093.614
54	1749.953	1561.134	1580.272	1808.735	1926.982	1866.662	1686.387	1527.300	1344.291	1191.526
55	1635.807	1379.662	1391.624	1603.341	1651.699	1894.515	1807.197	1675.451	1500.472	1326.007
56	1437.248	1195.457	1210.152	1440.836	1461.342	1711.847	1838.809	1779.686	1661.268	1483.726
57	1296.787	1106.259	1091.051	1254.580	1313.191	1469.373	1648.623	1783.616	1796.432	1701.595
58	1191.526	964.602	958.279	1136.504	1191.526	1287.559	1428.021	1636.833	1812.323	1824.114
59	1104.037	856.436	859.512	1039.275	1093.956	1173.414	1278.503	1438.273	1644.009	1817.791
60	1013.131	751.176	799.876	980.322	1029.364	1087.804	1180.932	1298.154	1446.817	1600.436
61	926.667	663.516	750.834	927.863	990.917	1036.199	1115.999	1171.705	1295.762	1399.826
62	835.589	630.024	737.506	893.688	941.875	972.120	1064.394	1107.284	1158.889	1252.871
63	757.499	627.803	694.274	846.696	889.245	919.661	1012.618	1063.198	1084.386	1146.073
64	694.103	614.474	674.110	772.877	785.693	848.576	955.545	1022.529	1035.174	1063.027
65	658.048	603.196	637.030	696.154	697.008	773.390	893.517	958.279	1000.828	1010.055
66	629.341	559.281	603.880	607.639	625.923	699.059	805.344	896.934	955.716	969.386
67	611.740	554.496	543.902	553.984	563.895	631.904	722.981	813.034	890.441	925.129
68	579.274	526.814	485.462	504.600	510.239	546.123	628.999	736.310	800.047	863.784
69	544.756	498.278	459.660	459.830	461.197	495.715	573.806	643.011	726.570	796.117
70	517.245	460.001	447.186	424.288	425.142	455.900	526.302	588.672	659.586	725.032
71	483.582	421.725	433.857	393.701	393.359	425.997	476.918	536.554	606.785	657.194
72	452.483	390.283	404.466	368.069	366.019	391.821	433.857	496.056	549.028	584.742
73	430.952	369.949	375.075	343.805	339.020	364.481	398.486	458.122	509.898	533.649
74	404.808	345.514	344.147	319.369	301.769	331.160	368.411	408.738	468.887	493.835
75	378.493	320.395	311.851	287.586	275.967	305.870	339.704	382.594	435.224	458.805
76	333.211	280.751	287.415	253.240	248.626	276.992	303.991	350.640	392.676	417.453
77	294.592	247.772	246.747	227.950	221.969	246.747	276.308	321.762	362.772	384.303
78	253.240	209.154	218.381	202.148	189.845	218.210	250.677	284.169	333.211	355.083
79	228.634	182.155	187.794	174.807	169.681	195.142	225.900	256.658	300.402	324.496
80	204.369	156.865	165.580	149.518	143.195	176.004	204.711	234.614	274.429	299.377
81	183.180	127.987	136.018	125.082	121.323	154.473	169.852	213.597	247.259	264.176
82	158.916	106.798	113.121	105.773	105.773	130.208	147.125	188.136	221.799	240.937
83	134.993	88.002	95.349	92.957	92.957	112.437	125.424	153.106	196.851	213.426
84	103.552	72.965	80.483	82.192	80.483	101.501	111.925	132.430	168.314	186.256
85	87.660	64.250	71.256	73.306	73.306	91.248	101.330	115.171	139.948	152.252
86	74.502	57.927	63.908	68.522	71.256	80.483	91.590	99.280	118.247	125.766
87	66.300	56.902	60.661	66.642	70.572	75.357	83.901	92.786	105.090	110.216
88	61.858	56.219	60.491	69.205	72.281	72.965	78.091	85.951	94.837	98.767
89	60.491	57.244	62.199	73.990	74.332	74.161	76.553	80.654	88.514	86.976
90	60.661	58.611	63.225	74.673	75.528	73.648	73.990	78.433	81.850	80.654
91	61.858	60.661	64.592	73.819	74.502	73.306	73.135	75.186	77.407	76.040
92	64.933	64.079	68.180	76.040	77.236	72.965	72.965	73.306	63.225	71.598
93	66.300	69.376	75.869	85.780	87.660	75.528	73.648	73.648	60.149	67.838
94	72.965	76.895	90.223	109.703	106.627	84.242	79.629	76.382	58.782	65.275
95	83.388	96.204	115.855	145.075	140.119	100.134	90.907	83.388	64.933	66.642
96	101.843	122.177	147.467	186.769	185.231	139.607	107.994	95.349	71.427	69.718
97	128.158	147.809	167.631	208.812	212.571	182.497	137.044	114.146	82.875	76.895
98	154.986	159.087	163.529	196.851	213.084	208.641	186.940	146.100	107.311	88.514
99	152.422	153.789	146.613	172.757	186.427	206.932	204.198	187.794	132.772	111.241
100	134.822	132.772	127.987	150.372	163.188	187.965	198.559	205.565	154.131	143.708
101	109.020	116.367	112.437	132.259	145.075	166.093	178.054	200.268	157.549	196.338
102	89.027	101.159	99.792	117.734	129.867	146.954	157.207	181.813	149.518	218.210
103	80.312	88.514	89.369	104.064	115.342	125.595	140.119	161.821	133.626	205.053
104	72.965	78.433	78.604	91.932	100.818	113.292	125.253	137.556	113.975	177.883
105	66.984	67.326	70.060	80.996	82.875	98.767	106.798	122.348	98.767	153.448
106	61.516	61.174	63.225	71.768	72.965	81.508	93.812	107.824	86.122	133.284
107	55.022	57.073	58.782	64.250	66.813	72.623	82.021	94.153	73.990	115.342
108	51.434	54.681	56.048	61.516	63.225	66.984	73.819	81.508	66.300	101.843

IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR8-4L-30.IES

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109	49.042	54.168	56.048	60.661	61.858	63.908	68.180	73.477	60.320	88.856
110	47.846	54.681	58.269	62.028	62.541	62.541	65.104	68.351	55.364	76.211
111	47.675	57.415	62.028	65.275	66.642	63.225	64.250	65.275	52.972	68.693
112	49.042	61.687	68.009	72.110	72.110	65.959	65.104	64.250	51.605	62.883
113	51.434	67.326	76.724	79.971	79.971	70.401	68.180	65.446	51.263	60.832
114	54.681	73.477	85.097	89.027	89.027	79.629	72.965	68.009	51.776	60.149
115	58.953	79.287	92.615	97.400	97.058	88.344	79.116	72.452	53.143	62.199
116	60.491	80.312	97.058	103.039	103.552	95.520	85.951	79.629	56.219	65.275
117	59.807	77.578	95.179	101.843	104.235	100.647	92.445	86.806	59.636	71.427
118	56.731	72.281	88.685	96.033	100.134	101.330	95.862	92.274	63.225	78.433
119	51.776	64.250	80.141	84.242	92.274	97.058	95.862	95.179	64.762	85.609
120	45.966	57.927	71.768	75.186	80.483	89.881	92.786	93.982	64.250	92.103
121	40.840	52.288	63.225	67.155	72.281	81.508	84.755	89.540	61.516	95.862
122	37.251	47.846	57.244	60.149	64.762	70.914	77.407	82.875	56.731	94.666
123	34.517	42.890	52.288	54.339	58.440	64.079	70.060	75.186	51.263	89.369
124	32.125	39.473	47.846	49.725	53.314	58.269	63.737	66.813	46.649	82.192
125	29.733	36.739	43.403	44.428	48.358	53.314	57.073	60.491	42.719	72.965
126	27.853	34.005	39.644	41.011	44.428	48.700	52.288	55.022	39.302	65.275
127	25.973	30.416	36.055	37.764	41.011	45.112	48.187	49.042	35.030	58.611
128	24.094	27.340	32.125	34.175	37.422	41.694	44.770	45.112	32.808	52.118
129	21.872	24.948	28.878	30.074	33.150	38.447	40.669	41.865	30.587	46.820
130	20.164	22.727	26.315	27.511	30.074	34.346	37.593	38.789	28.366	43.061
131	18.626	20.676	23.923	25.119	27.340	31.783	34.688	35.713	26.144	39.644
132	17.429	19.309	21.701	23.239	25.119	29.049	31.612	32.296	24.265	36.397
133	15.892	17.259	19.993	21.018	22.385	25.632	28.707	29.562	22.385	33.150
134	14.866	15.892	18.284	19.309	20.334	23.410	26.144	26.999	20.164	29.049
135	13.841	14.866	16.575	17.600	18.796	21.360	23.752	23.752	18.455	26.315
136	13.499	13.841	15.379	16.404	17.259	19.651	21.360	21.531	17.259	23.752
137	12.645	13.328	14.354	15.037	15.892	17.771	19.309	19.480	15.892	21.018
138	12.132	12.303	13.499	14.183	14.866	16.404	17.771	17.771	14.525	18.455
139	11.620	11.961	12.645	13.670	14.012	15.379	16.404	16.233	13.670	16.575
140	11.278	11.449	12.132	12.816	13.499	14.354	15.037	15.208	12.816	14.866
141	10.594	11.107	11.620	12.303	12.816	13.499	14.012	14.183	12.303	13.670
142	10.424	10.765	11.107	11.961	12.303	12.816	13.328	13.499	11.620	12.474
143	10.082	10.424	10.765	11.278	11.791	12.303	12.816	12.645	11.449	11.791
144	9.911	10.082	10.253	10.936	11.620	11.791	11.961	11.961	10.936	11.107
145	9.740	9.740	9.911	10.594	11.107	11.278	11.449	11.449	10.594	10.594
146	9.398	9.740	9.569	10.253	10.765	10.936	11.107	11.107	10.253	10.253
147	9.227	9.227	9.569	9.740	10.594	10.765	10.765	10.594	10.082	9.740
148	9.056	9.056	9.227	9.569	10.082	10.253	10.253	10.253	9.740	9.398
149	9.056	8.886	8.886	9.227	9.911	9.911	9.740	10.082	9.569	9.056
150	8.886	8.544	8.715	9.056	9.569	9.740	9.398	9.740	9.227	8.886
151	8.715	8.544	8.544	8.715	9.227	9.227	9.227	9.227	9.056	8.373
152	8.715	8.373	8.202	8.544	8.886	9.056	8.886	9.227	9.056	8.202
153	8.544	8.373	8.202	8.373	8.715	8.886	8.544	9.056	8.715	8.031
154	8.373	8.031	8.031	8.031	8.373	8.544	8.373	8.886	8.544	7.689
155	8.373	7.689	7.860	7.860	8.373	8.373	8.202	8.373	8.373	7.519
156	8.202	7.860	7.519	7.689	8.202	8.202	7.689	8.373	8.202	7.177
157	8.031	7.519	7.519	7.348	7.860	7.860	7.689	7.860	8.031	7.006
158	7.689	7.348	7.006	7.006	7.689	7.860	7.689	8.031	7.860	7.006
159	7.519	7.006	7.006	7.006	7.519	7.689	7.348	7.689	7.689	6.664
160	7.177	6.835	6.664	6.664	7.177	7.348	7.177	7.519	7.689	6.493
161	6.835	6.493	6.152	6.322	7.006	7.177	7.006	7.348	7.519	6.493
162	6.664	6.322	5.981	5.981	6.493	6.835	6.835	7.177	7.348	6.322
163	6.322	5.810	5.639	5.639	6.664	6.493	6.493	6.835	7.006	6.493
164	5.981	5.297	5.126	5.297	6.322	6.152	6.322	6.664	6.835	6.322

IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR8-4L-30.IES

CANDELA TABULATION - (Cont.)

165	5.810	4.785	4.955	5.126	5.639	5.810	5.810	6.322	6.493	5.981
166	5.297	4.614	4.443	4.443	5.297	5.297	5.639	5.981	5.981	5.639
167	5.126	4.443	4.101	4.101	4.785	5.126	5.297	5.639	5.468	5.468
168	4.785	4.101	3.759	3.759	4.443	4.614	4.955	5.297	5.126	5.126
169	4.443	3.930	3.418	3.418	4.101	4.614	4.614	4.955	4.614	4.785
170	4.101	3.759	2.905	2.734	3.588	3.930	4.272	4.614	3.930	4.443
171	3.759	3.247	2.563	2.563	3.247	3.759	3.930	4.272	3.759	4.272
172	3.588	2.734	2.221	2.221	2.905	3.247	3.759	3.588	3.418	3.759
173	3.418	2.734	2.051	1.709	2.563	2.905	3.418	2.905	3.247	3.418
174	3.076	2.563	1.880	1.196	2.051	2.734	2.734	2.392	2.905	3.076
175	2.734	2.392	1.538	1.196	1.880	2.563	2.734	2.221	2.392	2.734
176	2.392	1.709	1.196	1.025	1.367	2.221	2.392	1.880	2.392	2.905
177	1.880	1.196	0.513	0.000	0.342	1.880	1.196	1.367	2.563	2.734
178	1.367	1.196	0.854	0.171	0.000	1.196	0.342	1.025	2.051	2.734
179	1.367	1.367	1.196	0.854	0.171	1.196	0.684	1.367	1.880	2.221
180	1.538	1.538	1.538	1.538	1.538	1.538	1.538	1.538	1.538	1.538

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.171	0.342	0.000	0.000	0.000	0.000	0.000
6	0.684	0.854	0.000	0.000	0.000	0.000	0.000
7	1.367	1.367	0.000	0.000	0.000	0.000	0.684
8	2.221	2.221	0.000	0.000	0.000	0.854	1.538
9	3.076	2.905	0.000	0.000	0.854	1.709	2.563
10	0.342	3.759	0.000	0.684	1.880	2.905	3.418
11	0.854	0.513	0.513	1.709	2.734	3.930	4.443
12	1.367	1.025	1.196	2.392	3.588	4.955	5.297
13	2.392	1.709	2.051	3.247	4.443	5.981	6.493
14	2.905	2.734	2.905	4.101	5.297	7.006	7.519
15	3.759	3.759	4.101	4.785	6.493	8.031	9.056
16	4.272	4.272	4.785	5.810	7.689	9.227	10.594
17	5.468	5.297	5.810	6.835	8.715	10.936	12.132
18	6.664	5.981	6.664	7.860	10.082	12.645	14.012
19	7.689	7.177	8.031	9.398	11.449	14.183	17.429
20	9.056	8.715	9.056	10.594	13.499	16.233	22.556
21	10.594	10.253	10.594	12.474	15.550	18.796	90.223
22	12.816	11.961	12.303	14.695	18.455	73.135	167.801
23	15.892	14.866	15.037	17.771	42.207	147.980	217.527
24	53.826	23.068	18.967	84.926	138.923	216.501	263.151
25	120.639	128.671	78.433	159.599	225.387	256.487	325.692
26	183.009	193.433	172.586	228.292	269.132	309.629	359.696
27	247.259	247.259	238.203	289.637	310.997	343.292	379.860
28	289.637	273.062	287.245	321.249	349.957	369.778	403.270
29	337.482	334.748	317.832	364.823	359.355	399.340	430.269
30	405.321	358.671	363.285	383.790	432.148	433.345	444.110
31	416.428	400.707	384.303	405.492	426.680	449.065	475.380
32	466.666	416.086	443.939	439.667	463.248	496.740	511.606
33	476.235	467.520	460.001	495.544	472.817	497.594	544.586
34	510.923	498.278	480.848	474.013	507.847	525.960	565.262
35	514.340	521.517	503.062	539.288	533.820	558.768	602.855

IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR8-4L-30.IES

CANDELA TABULATION - (Cont.)

36	552.959	530.232	532.795	533.820	573.806	572.439	623.360
37	590.039	577.394	536.554	568.850	583.546	606.443	629.512
38	585.083	594.311	574.318	591.919	590.381	622.506	646.599
39	637.372	618.575	587.305	593.286	615.670	660.269	654.460
40	636.518	643.865	618.575	631.733	633.442	654.801	694.787
41	661.978	665.567	651.042	630.708	658.219	690.002	719.393
42	694.787	702.305	656.510	663.174	681.629	692.394	754.423
43	707.944	705.210	683.167	686.243	706.577	715.634	770.485
44	745.879	756.302	696.154	728.279	717.342	747.075	795.262
45	739.727	752.543	731.867	727.424	750.493	766.042	797.142
46	784.668	768.435	756.815	736.310	768.435	826.191	817.818
47	804.661	788.256	788.256	785.010	811.325	836.615	865.493
48	818.843	822.603	816.280	808.762	852.848	864.638	928.547
49	863.101	868.056	835.760	832.343	880.017	908.212	1008.859
50	893.004	887.365	887.707	877.454	939.141	977.930	1109.335
51	945.463	927.009	907.358	931.452	1005.954	1079.944	1216.304
52	983.227	961.526	952.640	995.530	1097.031	1209.127	1359.841
53	1036.541	1007.833	1040.300	1093.614	1201.779	1357.106	1589.499
54	1126.081	1090.538	1121.979	1192.381	1375.732	1602.315	1749.953
55	1225.873	1177.856	1214.595	1334.038	1564.551	1746.023	1635.807
56	1383.763	1312.337	1350.613	1556.691	1688.779	1663.660	1437.248
57	1530.888	1457.070	1538.065	1689.633	1655.287	1471.936	1296.787
58	1744.827	1657.509	1737.479	1673.400	1511.921	1310.970	1191.526
59	1828.215	1767.553	1798.311	1543.704	1298.667	1202.463	1104.037
60	1757.643	1754.567	1723.467	1354.372	1210.323	1113.948	1013.131
61	1568.994	1577.880	1511.750	1248.770	1104.037	1027.314	926.667
62	1328.570	1384.618	1370.435	1128.302	1034.832	934.869	835.589
63	1202.804	1261.928	1239.372	1029.535	942.046	857.974	757.499
64	1106.600	1151.199	1100.449	950.590	864.809	788.256	694.103
65	1035.174	1062.856	1024.238	859.512	799.534	746.904	658.048
66	991.088	995.018	958.450	814.230	778.516	714.267	629.341
67	944.438	950.248	913.509	780.396	731.696	689.319	611.740
68	907.187	909.921	874.208	747.075	701.793	650.017	579.274
69	847.893	868.569	841.570	715.463	659.928	612.936	544.756
70	785.181	779.883	784.668	669.668	628.657	580.641	517.245
71	686.072	717.001	724.177	622.335	591.064	542.193	483.582
72	623.018	656.339	665.737	572.097	533.308	511.265	452.483
73	576.027	600.292	607.468	528.865	496.398	479.481	430.952
74	524.251	544.756	541.852	475.380	474.697	453.679	404.808
75	480.336	503.062	503.746	443.939	443.426	424.630	378.493
76	444.452	465.128	472.134	410.960	418.136	394.385	333.211
77	411.985	416.599	442.914	388.746	388.233	367.386	294.592
78	382.423	385.499	395.752	356.279	344.147	321.933	253.240
79	335.261	352.178	366.019	321.762	308.775	290.320	228.634
80	310.313	323.471	334.919	292.371	278.701	257.512	204.369
81	285.878	288.441	305.358	262.809	251.360	229.659	183.180
82	255.291	262.980	272.378	237.861	224.533	199.755	158.916
83	230.855	235.811	242.646	203.002	200.439	171.390	134.993
84	192.750	207.787	212.742	179.763	168.485	143.195	103.552
85	159.428	176.516	174.807	154.815	136.531	116.709	87.660
86	133.797	137.727	147.467	127.816	110.216	90.907	74.502
87	111.241	117.905	123.544	101.159	89.198	76.553	66.300
88	98.938	102.868	106.115	84.072	76.040	65.275	61.858
89	90.394	94.666	93.299	72.281	65.959	60.832	60.491
90	81.850	89.711	81.338	63.566	59.978	59.124	60.661
91	75.186	77.578	67.326	59.294	57.927	59.636	61.858

IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR8-4L-30.IES

CANDELA TABULATION - (Cont.)

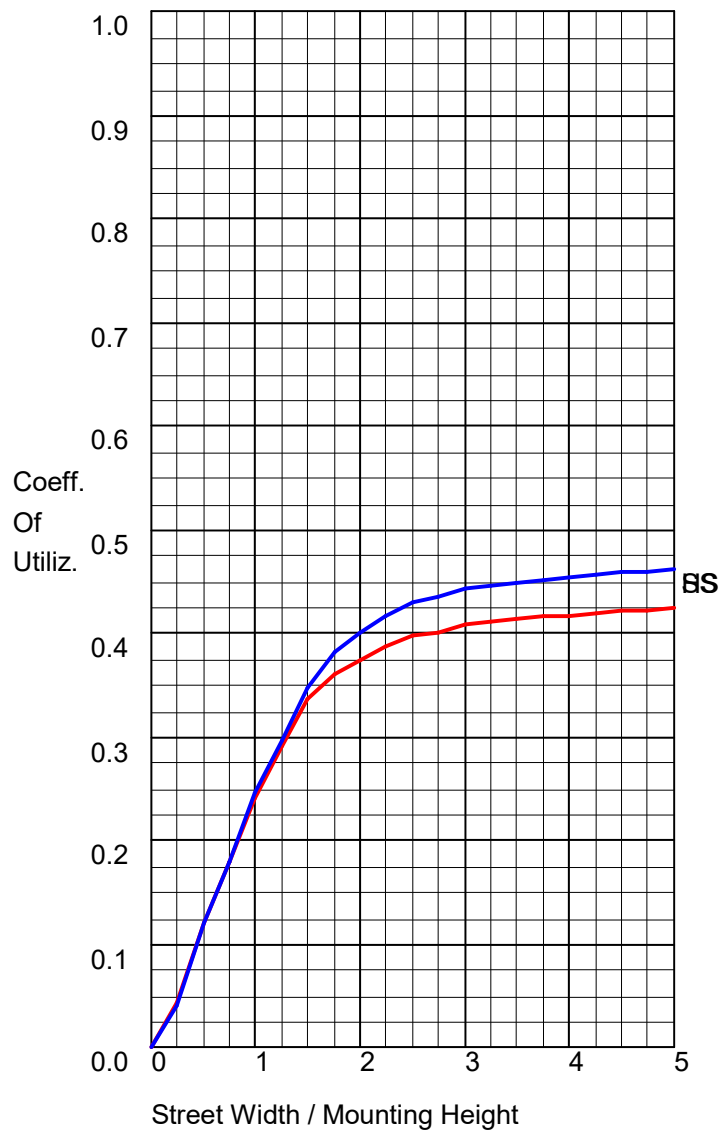
92	69.547	67.155	63.395	56.389	58.611	62.028	64.933
93	65.104	62.370	59.978	56.902	61.345	65.275	66.300
94	62.712	60.832	60.491	58.440	65.275	69.718	72.965
95	62.199	61.687	62.712	63.737	69.889	77.920	83.388
96	64.592	63.054	65.788	69.718	75.015	85.951	101.843
97	69.034	68.863	71.598	76.895	86.976	113.121	128.158
98	77.407	73.648	78.091	87.318	107.653	144.220	154.986
99	91.590	84.755	89.540	108.849	139.265	172.586	152.422
100	112.950	105.602	113.121	150.543	176.858	180.105	134.822
101	149.518	140.632	151.910	187.111	184.035	165.922	109.020
102	205.736	199.755	208.470	194.971	170.706	145.246	89.027
103	212.571	211.546	214.793	181.642	150.030	126.449	80.312
104	193.433	197.534	196.338	153.960	130.208	111.412	72.965
105	167.289	173.440	165.751	128.841	110.387	96.716	66.984
106	138.411	147.467	143.024	113.121	98.767	89.711	61.516
107	122.348	129.696	125.424	100.988	89.369	81.850	55.022
108	108.849	115.171	111.925	90.907	79.800	74.673	51.434
109	96.204	102.355	95.862	80.483	72.623	67.155	49.042
110	84.926	87.489	86.122	71.939	67.326	63.737	47.846
111	73.990	78.091	77.749	66.813	63.908	62.370	47.675
112	67.667	71.598	72.110	63.737	62.541	63.054	49.042
113	63.737	67.667	68.351	62.883	64.250	65.788	51.434
114	61.858	65.617	67.155	64.250	67.838	72.110	54.681
115	62.370	66.129	68.351	67.326	73.477	79.287	58.953
116	64.421	68.522	71.256	72.623	82.021	87.318	60.491
117	68.863	72.623	78.604	79.629	89.540	93.641	59.807
118	74.844	78.604	86.122	89.198	94.837	96.546	56.731
119	82.705	86.122	93.982	94.495	96.375	92.103	51.776
120	92.274	93.812	100.647	96.033	92.445	84.413	45.966
121	96.546	97.571	103.381	93.641	85.268	75.528	40.840
122	97.058	97.913	101.501	87.660	77.066	67.155	37.251
123	93.128	94.666	95.349	78.774	69.205	59.465	34.517
124	86.464	85.951	87.318	71.256	62.541	53.997	32.125
125	77.407	78.433	76.211	64.250	55.022	49.554	29.733
126	69.718	70.572	68.351	58.269	50.751	45.795	27.853
127	62.712	63.395	61.858	52.288	46.820	40.840	25.973
128	55.706	55.706	56.219	48.016	43.061	37.251	24.094
129	49.896	50.409	51.605	43.915	38.618	33.492	21.872
130	45.624	46.649	47.333	39.985	34.688	30.245	20.164
131	41.694	42.548	41.694	35.201	31.271	27.169	18.626
132	38.106	38.447	37.935	31.783	28.536	24.265	17.429
133	34.859	37.422	34.517	28.878	25.461	21.872	15.892
134	30.929	34.005	31.271	26.486	23.239	19.822	14.866
135	27.853	30.758	28.024	23.923	21.360	18.113	13.841
136	25.461	27.853	25.461	21.701	19.651	16.233	13.499
137	22.898	24.948	23.068	19.822	17.771	15.208	12.645
138	20.505	22.556	20.164	17.942	16.575	14.183	12.132
139	17.771	20.334	18.455	16.233	15.379	13.670	11.620
140	16.062	18.284	16.917	15.379	14.695	12.816	11.278
141	14.866	16.575	15.892	14.525	14.012	12.303	10.594
142	13.670	15.208	15.037	13.841	13.158	11.791	10.424
143	13.158	14.354	14.012	13.158	12.645	11.449	10.082
144	12.645	13.328	13.328	12.474	12.303	10.936	9.911
145	11.961	12.816	12.816	12.132	11.961	10.594	9.740
146	11.620	12.132	12.303	11.791	11.620	10.253	9.398
147	10.936	11.791	12.132	11.449	11.107	10.082	9.227

IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR8-4L-30.IES

CANDELA TABULATION - (Cont.)

148	10.765	11.278	11.620	10.936	10.765	9.740	9.056
149	10.594	10.936	11.278	10.936	10.594	9.398	9.056
150	10.253	10.765	11.107	10.594	10.424	9.227	8.886
151	9.911	10.424	10.765	10.594	10.082	9.227	8.715
152	9.569	10.253	10.765	10.253	9.740	9.056	8.715
153	9.398	9.911	10.594	9.911	9.740	8.886	8.544
154	9.056	9.569	10.253	9.911	9.569	8.886	8.373
155	8.715	9.398	10.082	9.740	9.398	8.544	8.373
156	8.202	9.227	10.082	9.569	9.227	8.373	8.202
157	8.031	9.056	9.911	9.227	9.056	8.373	8.031
158	7.689	8.886	9.911	9.056	8.886	8.202	7.689
159	7.519	8.544	9.740	8.886	8.886	8.031	7.519
160	7.348	8.373	9.569	8.715	8.544	7.860	7.177
161	7.177	8.373	9.398	8.715	8.373	7.689	6.835
162	7.006	8.202	9.227	8.715	8.202	7.348	6.664
163	6.835	8.202	9.056	8.544	7.860	7.177	6.322
164	6.664	7.689	9.056	8.373	7.689	6.835	5.981
165	6.664	7.519	8.715	8.031	7.519	6.493	5.810
166	6.322	7.519	8.373	7.860	7.006	6.152	5.297
167	5.981	7.177	8.031	7.519	6.835	5.810	5.126
168	5.810	6.835	7.689	7.177	6.493	5.639	4.785
169	5.468	6.664	7.348	6.835	6.152	5.126	4.443
170	5.297	6.322	7.006	6.493	5.810	4.955	4.101
171	4.785	5.981	6.493	5.810	5.297	4.614	3.759
172	4.443	5.810	5.981	5.297	4.785	4.272	3.588
173	4.101	5.297	5.639	4.955	4.443	4.101	3.418
174	3.588	4.785	4.785	3.930	4.101	3.418	3.076
175	3.076	4.443	4.272	3.076	3.759	3.076	2.734
176	2.905	3.930	3.759	2.563	3.076	2.905	2.392
177	2.905	2.905	2.734	2.392	2.905	2.734	1.880
178	2.734	2.734	2.734	2.051	2.221	2.051	1.367
179	2.221	2.905	2.221	1.196	1.196	1.709	1.367
180	1.538	1.538	1.538	1.538	1.538	1.538	1.538

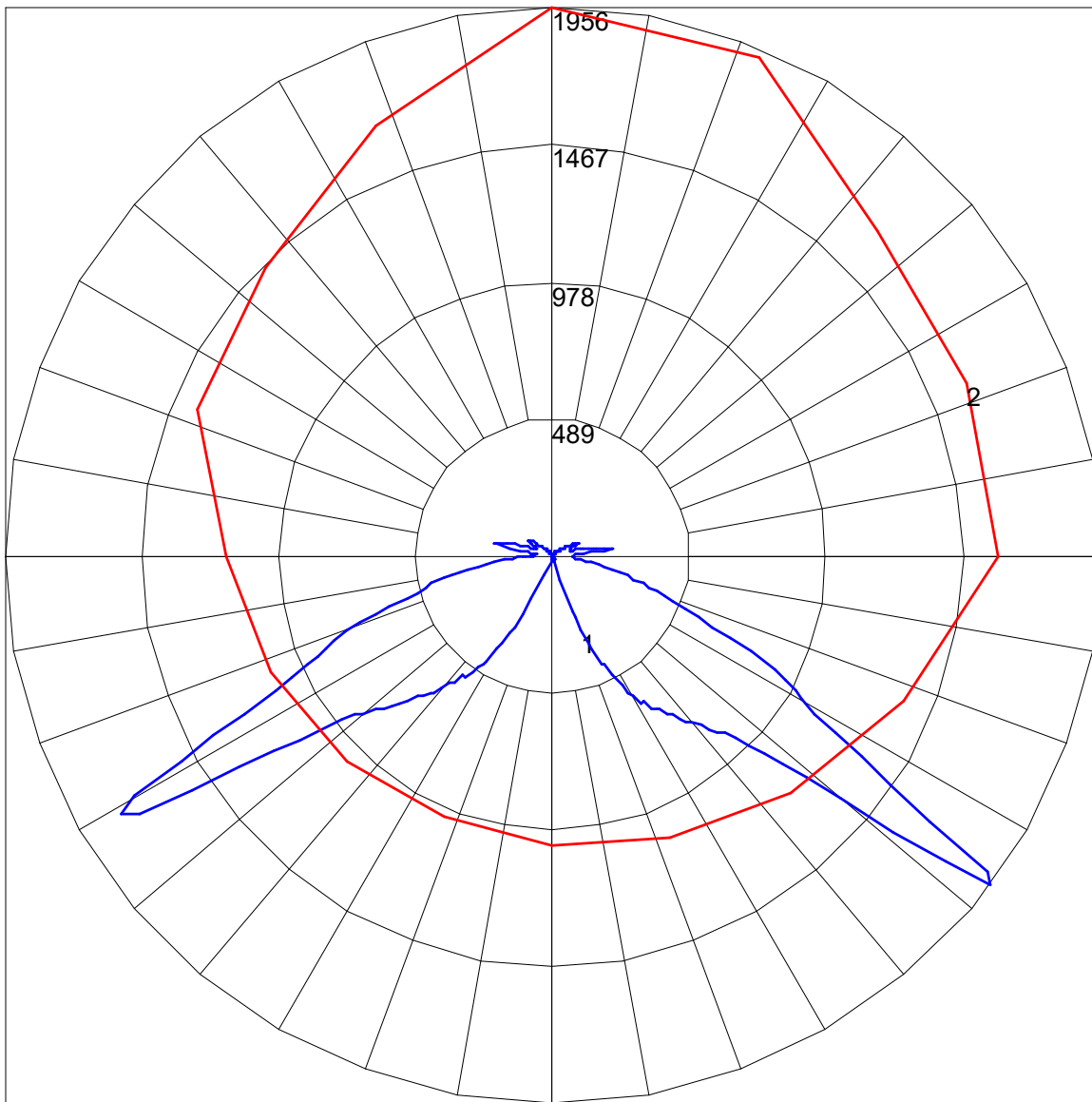
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

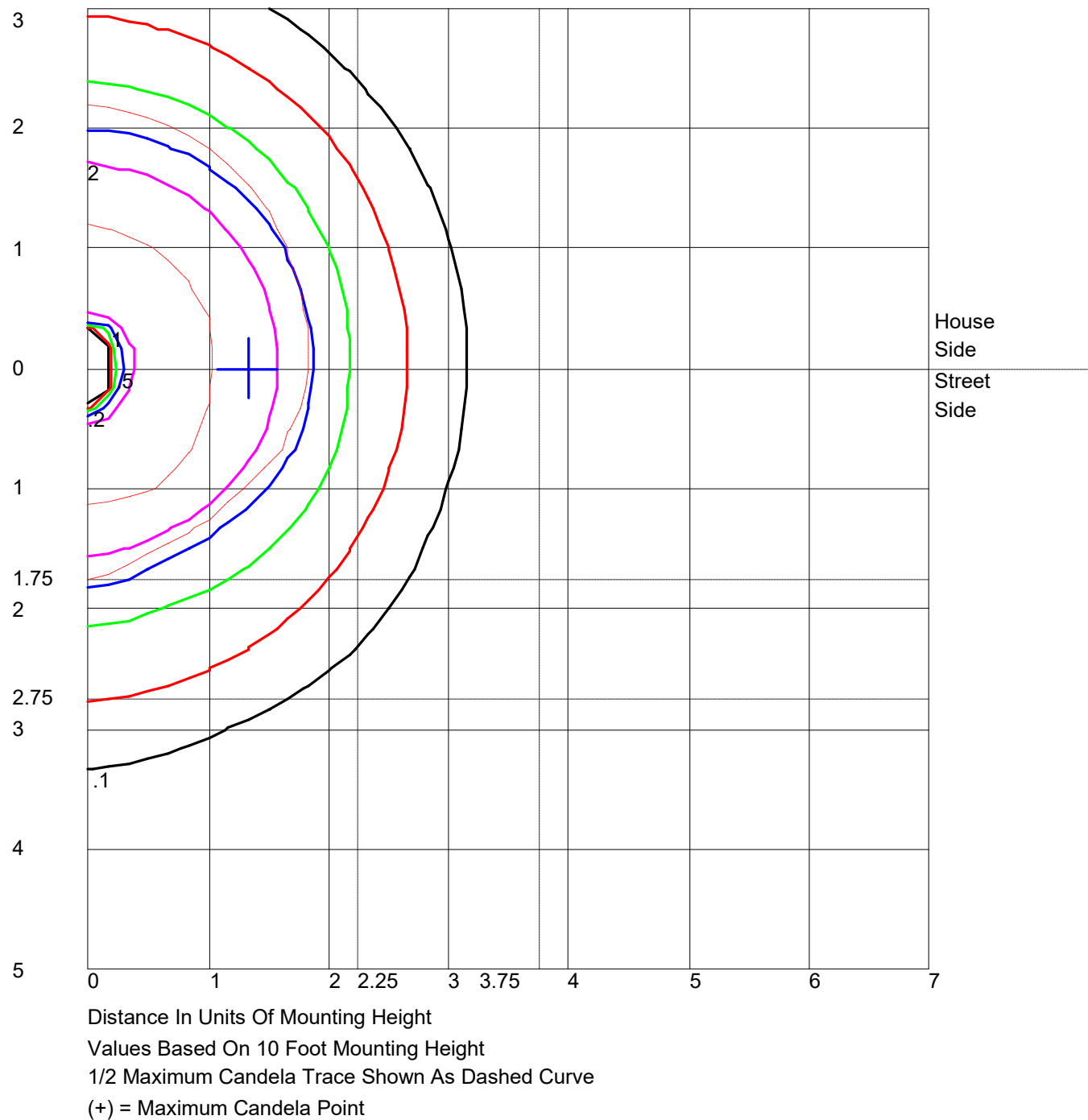
	Lumens	Percent Of Luminaire
Downward Street Side	1818.8	43.4
Downward House Side	1986.5	47.4
Downward Total	3805.3	90.8
Upward Street Side	183.1	4.4
Upward House Side	203.2	4.8
Upward Total	386.3	9.2
Total Flux	4191.6	100.0

POLAR GRAPH

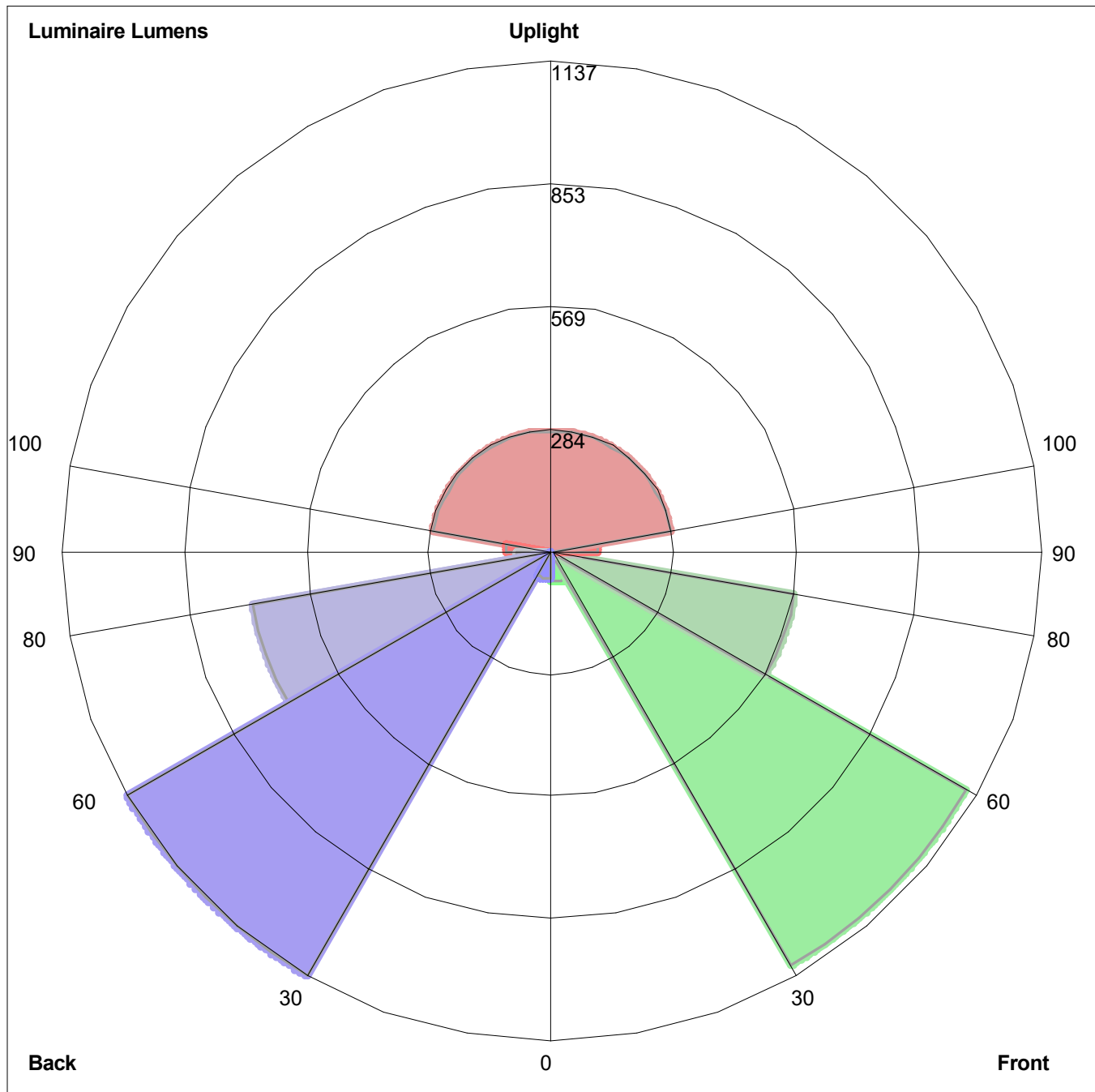


Maximum Candela = 1955.86 Located At Horizontal Angle = 90, Vertical Angle = 53
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (53) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=71.6, Medium= 1110.0, High=573.5, Very High=63.8
Back: Low=65.6, Medium=1137.1, High=704.4, Very High=79.3
Uplight: Low=107.6, High=278.7

BUG Rating : B2-U3-G2