



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SSLED2440-XX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 11890707.01P3

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 8/15/2017

[MANUFAC] Lamar Lighting Co Inc

[LUMCAT] SSLED2440-XX

[LUMINAIRE] White formed steel housing, frosted plastic lens enclosure

[LAMP] 56 white LEDs

[BALLAST] One Espen VPL50-xxx-MVHDA-PD-2C driver

[OTHER] 24.8 C, 120.072 V, 0.121493 A, 14.4011 W, 0.987198 PF, 59.9994

[MORE] Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1548
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	14.4011
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17582	14023	13754
55	16690	12716	12769
65	15057	11357	11895
75	12006	10144	11165
85	5127	8935	10600

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CANDELA TABULATION

	<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	443.172	443.172	443.172	443.172	443.172	443.172	443.172	443.172	443.172	443.172
0.5	440.336	445.588	442.962	440.441	440.861	442.017	445.483	448.004	440.126	445.483
1.0	440.336	445.588	442.962	440.336	440.966	442.122	445.693	448.109	440.126	445.378
1.5	440.231	445.483	442.857	440.336	440.966	442.227	445.693	448.319	439.916	445.378
2.0	440.126	445.483	442.857	440.231	440.861	442.332	445.798	448.319	439.811	445.168
2.5	440.021	445.378	442.647	440.126	440.966	442.227	445.798	448.319	439.496	444.958
3.0	439.916	445.168	442.437	440.126	440.966	442.332	445.798	448.214	439.286	444.748
3.5	439.706	444.958	442.437	440.021	440.861	442.227	445.693	448.214	438.971	444.538
4.0	439.496	444.748	442.227	439.811	440.861	442.227	445.588	448.109	438.655	444.223
4.5	439.286	444.433	441.912	439.601	440.651	442.122	445.483	447.899	438.340	443.908
5.0	438.865	444.118	441.702	439.496	440.651	442.017	445.378	447.689	437.920	443.697
5.5	438.550	443.697	441.281	439.286	440.441	441.807	445.063	447.374	437.605	443.172
6.0	438.235	443.382	440.966	438.865	440.126	441.597	444.853	447.269	437.185	442.857
6.5	437.710	442.857	440.546	438.550	439.916	441.281	444.433	446.849	436.660	442.437
7.0	437.290	442.437	440.126	438.235	439.601	440.966	444.223	446.429	436.239	442.017
7.5	436.765	441.912	439.706	437.815	439.181	440.756	443.802	446.008	435.609	441.492
8.0	436.239	441.387	439.181	437.395	438.865	440.336	443.382	445.588	435.084	440.966
8.5	435.609	440.651	438.550	436.870	438.445	440.021	442.962	445.168	434.454	440.336
9.0	434.979	440.021	438.025	436.450	438.025	439.496	442.437	444.433	433.823	439.706
9.5	434.244	439.391	437.290	435.924	437.605	438.971	441.912	443.908	433.088	439.076
10.0	433.508	438.655	436.660	435.399	437.080	438.550	441.387	443.277	432.353	438.340
10.5	432.773	437.920	436.029	434.874	436.555	438.025	440.756	442.542	431.513	437.605
11.0	431.933	437.080	435.294	434.244	436.029	437.500	440.021	441.807	430.672	436.765
11.5	431.092	436.239	434.559	433.613	435.504	436.870	439.391	441.071	429.727	435.924
12.0	430.147	435.399	433.823	432.983	434.874	436.239	438.550	440.231	428.887	435.084
12.5	429.202	434.349	432.983	432.248	434.244	435.609	437.920	439.391	427.836	434.034
13.0	428.256	433.403	432.248	431.618	433.613	434.874	436.975	438.445	426.891	432.983
13.5	427.101	432.458	431.302	430.882	432.878	434.139	436.134	437.500	425.735	431.933
14.0	426.050	431.302	430.357	430.042	432.143	433.193	435.189	436.555	424.685	430.777
14.5	424.895	430.252	429.412	429.202	431.302	432.458	434.244	435.504	423.424	429.622
15.0	423.739	428.992	428.361	428.361	430.462	431.513	433.193	434.454	422.269	428.466
15.5	422.479	427.836	427.311	427.416	429.517	430.672	432.143	433.298	421.008	427.206
16.0	421.218	426.576	426.155	426.365	428.571	429.622	431.092	432.143	419.643	425.945
16.5	419.958	425.315	425.000	425.315	427.521	428.466	429.937	430.987	418.277	424.475
17.0	418.592	423.950	423.739	424.265	426.471	427.416	428.781	429.727	416.807	423.109
17.5	417.227	422.584	422.479	423.109	425.420	426.365	427.521	428.466	415.231	421.744
18.0	415.756	421.008	421.113	421.849	424.265	425.105	426.365	427.206	413.760	420.273
18.5	414.286	419.538	419.748	420.588	423.214	424.055	425.105	425.840	412.185	418.697
19.0	412.815	417.962	418.277	419.328	422.059	422.899	423.844	424.475	410.504	417.332
19.5	411.239	416.281	416.807	418.067	420.798	421.639	422.479	423.004	408.823	415.651
20.0	409.559	414.706	415.231	416.807	419.643	420.378	421.113	421.534	407.143	414.076
20.5	407.983	413.025	413.760	415.441	418.382	419.118	419.748	420.063	405.357	412.395
21.0	406.197	411.344	412.185	414.181	417.227	417.962	418.277	418.487	403.571	410.819
21.5	404.517	409.664	410.609	412.815	415.966	416.597	416.807	416.807	401.786	409.139
22.0	402.836	407.878	409.034	411.450	414.706	415.336	415.336	415.021	400.000	407.353
22.5	401.050	406.092	407.458	410.084	413.445	413.971	413.760	413.235	398.109	405.672
23.0	399.160	404.307	405.777	408.718	412.080	412.605	412.185	411.555	396.323	403.887
23.5	397.269	402.416	404.202	407.353	410.714	411.134	410.609	409.664	394.433	402.101
24.0	395.378	400.630	402.521	405.882	409.244	409.664	408.929	407.878	392.542	400.420
24.5	393.382	398.634	400.840	404.307	407.773	408.088	407.248	405.987	390.651	398.529
25.0	391.281	396.744	399.160	402.836	406.302	406.618	405.462	404.097	388.655	396.744
25.5	389.181	394.748	397.374	401.155	404.727	405.042	403.676	402.206	386.660	394.853
26.0	386.975	392.647	395.483	399.475	403.256	403.466	401.891	400.210	384.664	392.857
26.5	384.874	390.651	393.697	397.794	401.576	401.786	400.000	398.214	382.563	390.861

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

27.0	382.563	388.550	391.702	396.008	400.000	400.105	398.214	396.113	380.567	388.866
27.5	380.357	386.450	389.706	394.328	398.319	398.319	396.218	394.118	378.361	386.870
28.0	378.046	384.244	387.815	392.437	396.744	396.744	394.328	392.017	376.260	384.874
28.5	375.735	382.038	385.714	390.546	395.063	394.958	392.227	389.811	374.055	382.773
29.0	373.424	379.937	383.718	388.760	393.277	393.067	390.231	387.710	371.954	380.672
29.5	371.113	377.731	381.618	386.870	391.597	391.281	388.130	385.504	369.853	378.571
30.0	369.013	375.420	379.412	385.084	389.811	389.391	386.029	383.193	367.437	376.366
30.5	366.597	373.214	377.416	383.193	388.025	387.500	383.929	381.092	365.231	374.265
31.0	364.286	370.798	375.210	381.408	386.134	385.504	381.933	378.781	362.920	371.954
31.5	361.870	368.592	373.109	379.412	384.139	383.508	379.727	376.471	360.609	369.643
32.0	359.559	366.071	371.008	377.416	382.248	381.513	377.626	374.160	358.088	367.332
32.5	357.143	363.760	368.908	375.420	380.252	379.517	375.420	371.744	355.672	364.916
33.0	354.727	361.344	366.597	373.424	378.256	377.521	373.214	369.433	353.256	362.500
33.5	352.311	358.823	364.286	371.218	376.155	375.420	371.113	366.912	350.630	359.979
34.0	349.790	356.092	361.975	369.118	374.160	373.424	368.802	364.496	348.109	357.458
34.5	347.164	353.466	359.559	366.912	372.164	371.429	366.702	361.870	345.483	354.937
35.0	344.538	350.735	356.933	364.706	370.168	369.433	364.391	359.349	342.857	352.416
35.5	341.807	347.899	354.517	362.395	368.172	367.437	362.080	356.828	340.126	349.685
36.0	338.866	345.063	351.786	360.189	366.176	365.336	359.769	354.202	337.395	347.059
36.5	335.924	342.227	349.265	357.878	364.076	363.340	357.248	351.471	334.664	344.433
37.0	333.088	339.286	346.534	355.567	362.080	361.134	354.832	348.950	331.828	341.807
37.5	330.042	336.344	343.908	353.256	359.979	358.929	352.416	346.323	328.992	338.971
38.0	327.101	333.403	341.176	350.945	357.878	356.723	349.895	343.697	326.260	336.239
38.5	324.055	330.567	338.445	348.634	355.777	354.412	347.479	340.861	323.424	333.508
39.0	321.113	327.626	335.819	346.323	353.571	352.101	344.853	338.235	320.483	330.777
39.5	318.067	324.790	333.193	343.908	351.366	349.895	342.332	335.504	317.647	328.046
40.0	315.021	321.849	330.462	341.597	349.055	347.584	339.811	332.773	314.706	325.210
40.5	312.080	319.118	327.941	339.181	346.849	345.168	337.185	330.042	311.870	322.479
41.0	309.034	316.281	325.315	336.765	344.538	342.752	334.664	327.311	309.034	319.643
41.5	306.092	313.550	322.689	334.454	342.227	340.336	331.933	324.475	306.197	316.807
42.0	303.256	310.714	320.168	332.143	339.916	337.920	329.307	321.639	303.361	314.076
42.5	300.420	307.983	317.542	329.727	337.605	335.504	326.786	318.802	300.525	311.239
43.0	297.479	305.147	315.126	327.416	335.294	332.983	324.055	315.966	297.689	308.298
43.5	294.748	302.311	312.500	325.105	332.878	330.567	321.429	313.130	294.853	305.567
44.0	291.807	299.475	309.979	322.794	330.567	328.046	318.697	310.084	291.912	302.731
44.5	288.971	296.744	307.353	320.483	328.256	325.735	315.966	307.248	288.971	299.790
45.0	286.134	293.908	304.832	317.962	325.945	323.214	313.340	304.412	286.134	296.849
45.5	283.193	291.071	302.311	315.546	323.634	320.798	310.609	301.471	283.193	293.908
46.0	280.252	288.025	299.580	313.235	321.323	318.382	307.878	298.424	280.147	290.861
46.5	277.311	285.189	296.954	310.924	319.118	315.966	305.252	295.588	277.101	287.815
47.0	274.265	282.248	294.328	308.508	316.807	313.655	302.521	292.647	273.950	284.769
47.5	271.218	279.307	291.702	306.197	314.601	311.239	299.790	289.601	270.903	281.618
48.0	268.172	276.366	289.076	303.676	312.290	308.929	297.059	286.660	267.647	278.571
48.5	265.021	273.424	286.450	301.260	310.084	306.618	294.328	283.718	264.496	275.420
49.0	261.870	270.588	283.613	299.055	307.983	304.202	291.597	280.672	261.239	272.269
49.5	258.718	267.647	280.987	296.639	305.777	301.891	288.866	277.626	257.983	269.223
50.0	255.462	264.601	278.361	294.328	303.571	299.580	286.239	274.685	254.727	266.071
50.5	252.311	261.660	275.630	292.017	301.366	297.269	283.508	271.639	251.366	262.920
51.0	249.055	258.613	272.899	289.706	299.160	294.958	280.882	268.592	247.899	259.769
51.5	245.903	255.672	270.063	287.290	296.954	292.647	278.151	265.546	244.643	256.408
52.0	242.647	252.521	267.332	284.874	294.643	290.231	275.420	262.500	241.176	253.361
52.5	239.391	249.475	264.496	282.458	292.437	287.815	272.794	259.349	237.815	250.000
53.0	236.239	246.324	261.765	280.042	290.021	285.504	269.958	256.197	234.244	246.639
53.5	232.983	243.067	259.034	277.626	287.710	282.983	267.332	253.151	230.882	243.277
54.0	229.832	239.811	256.197	275.105	285.399	280.567	264.601	250.000	227.416	240.021
54.5	226.576	236.555	253.361	272.689	283.088	278.151	261.975	246.849	223.950	236.555

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

55.0	223.319	233.193	250.630	270.273	280.672	275.630	259.139	243.592	220.483	233.088
55.5	220.063	229.937	247.794	267.752	278.361	273.214	256.302	240.336	216.912	229.727
56.0	216.702	226.681	245.063	265.336	276.050	270.798	253.571	236.975	213.445	226.155
56.5	213.340	223.214	242.227	262.815	273.739	268.277	250.630	233.718	209.874	222.794
57.0	209.979	219.853	239.391	260.294	271.323	265.756	247.689	230.252	206.408	219.328
57.5	206.513	216.492	236.660	257.878	268.908	263.235	244.853	226.891	202.836	215.861
58.0	203.046	213.130	233.718	255.357	266.702	260.819	241.807	223.424	199.370	212.395
58.5	199.475	209.664	230.882	252.836	264.286	258.298	238.866	219.958	195.798	209.034
59.0	195.903	206.302	227.941	250.420	261.870	255.672	235.924	216.492	192.332	205.672
59.5	192.122	202.836	225.105	247.899	259.454	253.256	232.983	213.025	188.760	202.416
60.0	188.550	199.370	222.164	245.273	257.038	250.630	230.042	209.559	185.189	198.950
60.5	184.874	196.113	219.328	242.647	254.622	248.109	226.996	206.092	181.723	195.693
61.0	181.092	192.647	216.387	240.231	252.206	245.693	224.160	202.731	178.046	192.332
61.5	177.416	189.181	213.445	237.815	249.790	243.067	221.429	199.265	174.475	189.076
62.0	173.739	185.819	210.504	235.189	247.479	240.651	218.487	195.798	170.903	185.714
62.5	170.063	182.458	207.668	232.773	245.063	238.235	215.756	192.332	167.332	182.353
63.0	166.281	179.097	204.832	230.357	242.542	235.819	213.025	188.866	163.760	178.992
63.5	162.605	175.735	202.101	227.836	240.231	233.403	210.294	185.504	160.084	175.630
64.0	159.034	172.374	199.265	225.420	237.815	230.987	207.563	182.143	156.408	172.269
64.5	155.357	168.908	196.639	223.109	235.399	228.676	204.937	178.676	152.836	168.908
65.0	151.786	165.546	194.013	220.798	233.088	226.155	202.206	175.315	149.160	165.546
65.5	148.214	162.185	191.281	218.382	230.777	223.845	199.475	171.849	145.588	162.080
66.0	144.643	158.824	188.655	215.861	228.466	221.324	196.744	168.487	141.912	158.824
66.5	140.966	155.462	186.029	213.445	225.945	218.802	194.118	164.916	138.235	155.462
67.0	137.395	152.101	183.403	210.924	223.634	216.281	191.387	161.555	134.559	151.996
67.5	133.718	148.634	180.882	208.508	221.324	213.760	188.655	157.983	130.987	148.739
68.0	130.147	145.168	178.256	205.987	218.908	211.345	186.029	154.727	127.311	145.378
68.5	126.366	141.912	175.735	203.571	216.387	208.718	183.298	151.260	123.529	142.017
69.0	122.689	138.445	173.109	201.050	214.076	206.302	180.672	147.899	119.748	138.760
69.5	119.013	135.084	170.588	198.529	211.660	203.887	178.151	144.643	116.071	135.504
70.0	115.231	131.933	167.962	196.008	209.244	201.471	175.420	141.176	112.290	132.248
70.5	111.450	128.676	165.336	193.697	206.828	198.950	172.794	137.920	108.613	128.992
71.0	107.668	125.525	162.605	191.176	204.412	196.534	170.063	134.664	104.863	125.630
71.5	103.929	122.374	159.979	188.760	202.101	194.223	167.332	131.513	101.071	122.479
72.0	100.074	119.223	157.353	186.345	199.685	191.807	165.231	128.151	97.363	119.328
72.5	96.303	116.176	154.622	183.929	197.374	189.391	162.605	125.000	93.697	116.176
73.0	92.510	113.130	151.996	181.513	194.958	186.870	159.874	121.849	89.979	113.025
73.5	88.813	110.084	149.370	179.097	192.647	184.559	157.248	118.697	86.345	109.979
74.0	85.074	107.143	146.639	176.786	190.231	182.038	154.622	115.651	82.668	106.933
74.5	81.366	104.170	144.013	174.370	187.920	179.727	151.891	112.605	79.086	103.866
75.0	77.731	101.229	141.387	171.954	185.504	177.206	149.265	109.559	75.536	100.945
75.5	74.464	98.361	138.760	169.538	183.193	174.895	146.639	106.723	72.290	98.078
76.0	70.840	95.525	136.345	167.227	180.882	172.479	144.013	103.718	68.697	95.168
76.5	67.269	92.721	133.613	164.916	178.571	170.063	141.387	100.872	65.158	92.395
77.0	63.697	89.947	131.197	162.500	176.260	167.542	138.866	98.078	61.628	89.685
77.5	60.189	87.300	128.676	160.189	173.950	165.231	136.345	95.326	58.151	86.954
78.0	56.723	84.632	126.155	157.773	171.744	162.815	133.824	92.658	54.685	84.391
78.5	53.256	81.933	123.634	155.567	169.433	160.504	131.303	90.000	51.239	81.859
79.0	49.863	79.317	121.218	153.151	167.122	158.088	128.887	87.300	47.857	79.275
79.5	46.502	76.565	118.803	150.945	164.811	155.777	126.471	84.517	44.496	76.775
80.0	43.172	74.244	116.281	148.634	162.500	153.466	124.055	81.691	41.218	74.496
80.5	39.895	71.523	113.866	146.324	160.294	151.050	121.534	78.939	37.973	71.817
81.0	36.639	68.803	111.555	144.118	157.983	148.739	119.223	76.313	34.779	69.160
81.5	33.477	66.134	109.139	141.807	155.567	146.429	116.807	73.834	31.712	66.534
82.0	30.336	63.519	106.723	139.496	153.256	144.013	114.391	71.124	28.697	63.908
82.5	27.321	60.903	104.328	137.185	150.945	141.702	111.975	68.466	25.798	61.355

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

83.0	24.359	58.361	101.943	134.769	148.529	139.391	109.664	65.861	22.952	58.824
83.5	21.513	55.872	99.601	132.458	146.113	136.975	107.248	63.288	20.231	56.387
84.0	18.771	53.435	97.279	130.147	143.803	134.664	104.874	60.788	17.616	53.981
84.5	16.145	51.040	94.958	127.836	141.492	132.353	102.563	58.330	15.137	51.639
85.0	13.697	48.718	92.647	125.525	139.181	129.937	100.210	55.924	12.773	49.370
85.5	11.366	46.460	90.357	123.214	136.870	127.626	97.878	53.624	10.567	47.153
86.0	9.191	44.275	88.162	121.008	134.559	125.315	95.578	51.355	8.508	45.000
86.5	7.237	42.143	85.945	118.697	132.353	123.004	93.298	49.170	6.649	42.899
87.0	5.462	40.053	83.792	116.492	130.042	120.693	91.071	47.017	4.979	40.861
87.5	3.918	38.015	81.555	114.286	127.836	118.487	88.824	44.895	3.529	38.876
88.0	2.584	36.040	79.422	112.080	125.630	116.281	86.576	42.836	2.311	36.943
88.5	1.513	34.097	77.374	109.874	123.319	113.971	84.391	40.798	1.355	35.053
89.0	0.683	32.195	75.399	107.878	121.324	111.765	82.206	38.803	0.672	33.193
89.5	0.126	30.368	73.645	105.777	119.223	109.559	80.021	36.807	0.231	31.387
90.0	0.000	28.624	71.660	103.655	117.017	107.563	78.046	34.989	0.000	29.664
90.5	0.000	26.880	69.622	101.544	114.811	105.357	76.208	33.214	0.000	27.952
91.0	0.000	25.158	67.542	99.359	112.710	103.130	74.265	31.334	0.000	26.261
91.5	0.000	23.456	65.452	97.122	110.399	100.893	72.090	29.527	0.000	24.643
92.0	0.000	21.838	63.361	94.895	108.088	98.582	69.905	27.773	0.000	23.057
92.5	0.000	20.263	61.260	92.616	105.672	96.218	67.700	26.040	0.000	21.513
93.0	0.000	18.687	59.181	90.347	103.246	93.897	65.567	24.401	0.000	20.042
93.5	0.000	17.185	57.122	88.130	100.914	91.586	63.424	22.763	0.000	18.592
94.0	0.000	15.672	55.105	85.830	98.519	89.317	61.303	21.155	0.000	17.174
94.5	0.000	14.191	53.099	83.624	96.218	87.080	59.202	19.590	0.000	15.767
95.0	0.000	12.731	51.113	81.450	93.939	84.811	57.143	18.036	0.000	14.370
95.5	0.000	11.271	49.139	79.286	91.670	82.658	55.116	16.492	0.000	12.983
96.0	0.000	9.832	47.227	77.153	89.443	80.504	53.099	14.979	0.000	11.628
96.5	0.000	8.382	45.294	75.431	87.258	78.393	51.092	13.456	0.000	10.273
97.0	0.000	6.943	43.393	73.309	85.084	76.366	49.118	11.954	0.000	8.897
97.5	0.000	5.483	41.513	71.208	82.899	74.475	47.153	10.420	0.000	7.521
98.0	0.000	4.023	39.601	69.086	80.777	72.353	45.200	8.918	0.000	6.176
98.5	0.000	2.595	37.689	66.996	78.592	70.179	43.235	7.384	0.000	4.821
99.0	0.000	1.271	35.798	64.853	76.513	68.036	41.292	5.861	0.000	3.487
99.5	0.000	0.231	33.887	62.721	74.611	65.861	39.328	4.349	0.000	2.206
100.0	0.000	0.000	31.985	60.557	72.395	63.666	37.374	2.857	0.000	1.029
100.5	0.000	0.000	30.053	58.403	70.179	61.471	35.410	1.429	0.000	0.252
101.0	0.000	0.000	28.141	56.260	67.983	59.286	33.435	0.378	0.000	0.105
101.5	0.000	0.000	26.218	54.086	65.767	57.080	31.481	0.000	0.000	0.053
102.0	0.000	0.000	24.265	51.933	63.550	54.884	29.485	0.000	0.000	0.021
102.5	0.000	0.000	22.332	49.790	61.313	52.710	27.511	0.000	0.000	0.000
103.0	0.000	0.000	20.368	47.626	59.097	50.525	25.546	0.000	0.000	0.000
103.5	0.000	0.000	18.393	45.483	56.880	48.330	23.540	0.000	0.000	0.000
104.0	0.000	0.000	16.397	43.340	54.653	46.145	21.523	0.000	0.000	0.000
104.5	0.000	0.000	14.391	41.197	52.426	43.971	19.496	0.000	0.000	0.000
105.0	0.000	0.000	12.353	39.013	50.179	41.796	17.458	0.000	0.000	0.000
105.5	0.000	0.000	10.284	36.849	47.962	39.601	15.410	0.000	0.000	0.000
106.0	0.000	0.000	8.214	34.664	45.704	37.395	13.319	0.000	0.000	0.000
106.5	0.000	0.000	6.145	32.468	43.445	35.200	11.218	0.000	0.000	0.000
107.0	0.000	0.000	4.149	30.242	41.166	32.983	9.086	0.000	0.000	0.000
107.5	0.000	0.000	2.363	27.994	38.866	30.746	6.964	0.000	0.000	0.000
108.0	0.000	0.000	1.029	25.725	36.544	28.477	4.863	0.000	0.000	0.000
108.5	0.000	0.000	0.189	23.445	34.191	26.197	2.868	0.000	0.000	0.000
109.0	0.000	0.000	0.000	21.113	31.838	23.876	1.313	0.000	0.000	0.000
109.5	0.000	0.000	0.000	18.771	29.454	21.555	0.357	0.000	0.000	0.000
110.0	0.000	0.000	0.000	16.397	27.069	19.202	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	14.002	24.643	16.828	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	11.607	22.227	14.433	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	9.202	19.800	12.006	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	6.807	17.332	9.580	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	4.527	14.842	7.174	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	2.616	12.353	4.832	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	1.250	9.863	2.763	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.305	7.395	1.334	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	5.011	0.336	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	2.931	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	1.481	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.410	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. 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	443.172	443.172	443.172	443.172	443.172	443.172	443.172
0.5	442.857	440.441	440.966	441.912	445.168	447.689	440.336
1.0	442.857	440.441	440.861	441.912	444.958	447.374	440.336
1.5	442.752	440.336	440.861	441.702	444.748	447.059	440.231
2.0	442.647	440.231	440.861	441.597	444.538	446.744	440.126
2.5	442.437	440.231	440.651	441.387	444.328	446.429	440.021
3.0	442.227	440.021	440.651	441.281	444.013	446.113	439.916
3.5	442.122	439.811	440.441	441.176	443.697	445.693	439.706
4.0	441.807	439.601	440.231	440.861	443.382	445.273	439.496
4.5	441.597	439.391	440.021	440.651	443.172	444.853	439.286
5.0	441.281	439.181	439.916	440.336	442.647	444.328	438.865
5.5	440.861	438.865	439.601	440.021	442.227	443.802	438.550
6.0	440.651	438.550	439.181	439.601	441.807	443.172	438.235
6.5	440.231	438.340	438.760	439.181	441.281	442.647	437.710
7.0	439.811	437.815	438.340	438.760	440.756	442.017	437.290
7.5	439.391	437.395	437.920	438.235	440.231	441.281	436.765
8.0	438.865	436.975	437.500	437.710	439.601	440.651	436.239
8.5	438.340	436.555	437.080	437.080	438.865	439.916	435.609
9.0	437.710	436.029	436.450	436.555	438.235	439.181	434.979
9.5	437.185	435.504	435.924	436.029	437.605	438.340	434.244
10.0	436.555	434.979	435.399	435.399	436.765	437.605	433.508
10.5	435.819	434.349	434.874	434.769	436.029	436.765	432.773
11.0	435.189	433.823	434.349	434.139	435.399	435.924	431.933
11.5	434.349	433.193	433.823	433.613	434.559	434.979	431.092
12.0	433.508	432.458	433.193	432.983	433.823	434.034	430.147

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

12.5	432.668	431.828	432.668	432.353	432.983	433.088	429.202
13.0	431.723	430.987	431.933	431.618	432.143	431.933	428.256
13.5	430.672	430.147	431.197	430.777	431.197	430.882	427.101
14.0	429.727	429.202	430.357	429.937	430.357	429.832	426.050
14.5	428.676	428.361	429.517	429.097	429.307	428.676	424.895
15.0	427.626	427.311	428.466	428.151	428.256	427.416	423.739
15.5	426.365	426.365	427.521	427.206	427.101	426.050	422.479
16.0	425.315	425.315	426.576	426.155	425.945	424.790	421.218
16.5	423.950	424.160	425.525	425.000	424.685	423.319	419.958
17.0	422.689	423.109	424.475	423.844	423.424	421.849	418.592
17.5	421.429	421.954	423.424	422.584	422.059	420.378	417.227
18.0	420.063	420.903	422.269	421.323	420.588	418.802	415.756
18.5	418.697	419.643	421.113	420.063	419.118	417.122	414.286
19.0	417.227	418.487	419.853	418.802	417.542	415.441	412.815
19.5	415.861	417.227	418.697	417.437	415.966	413.760	411.239
20.0	414.391	415.861	417.332	416.071	414.391	411.975	409.559
20.5	412.920	414.496	415.966	414.601	412.710	410.189	407.983
21.0	411.450	413.235	414.601	413.130	411.029	408.403	406.197
21.5	409.874	411.765	413.235	411.660	409.349	406.513	404.517
22.0	408.298	410.294	411.765	410.084	407.563	404.622	402.836
22.5	406.828	408.823	410.399	408.613	405.882	402.731	401.050
23.0	405.147	407.353	408.823	406.933	404.097	400.735	399.160
23.5	403.571	405.882	407.353	405.357	402.311	398.844	397.269
24.0	401.891	404.412	405.882	403.781	400.525	396.744	395.378
24.5	400.315	402.941	404.412	402.206	398.634	394.748	393.382
25.0	398.739	401.365	402.941	400.525	396.849	392.752	391.281
25.5	397.059	399.895	401.471	399.055	394.958	390.756	389.181
26.0	395.378	398.424	400.000	397.374	393.067	388.655	386.975
26.5	393.697	396.954	398.634	395.798	391.281	386.555	384.874
27.0	391.912	395.483	397.164	394.223	389.391	384.454	382.563
27.5	390.021	394.013	395.693	392.647	387.605	382.353	380.357
28.0	388.340	392.542	394.223	391.071	385.714	380.252	378.046
28.5	386.555	390.861	392.752	389.601	383.929	378.151	375.735
29.0	384.559	389.181	391.176	387.920	382.038	376.050	373.424
29.5	382.563	387.395	389.601	386.239	380.147	373.950	371.113
30.0	380.462	385.714	388.025	384.559	378.256	371.744	369.013
30.5	378.466	383.929	386.450	382.773	376.260	369.538	366.597
31.0	376.366	382.038	384.664	381.092	374.265	367.332	364.286
31.5	374.160	380.147	382.878	379.307	372.269	365.021	361.870
32.0	371.954	378.256	381.092	377.416	370.168	362.815	359.559
32.5	369.853	376.260	379.307	375.630	368.067	360.504	357.143
33.0	367.647	374.370	377.521	373.634	365.756	358.088	354.727
33.5	365.441	372.374	375.525	371.639	363.550	355.672	352.311
34.0	363.235	370.273	373.529	369.538	361.239	353.151	349.790
34.5	360.924	368.277	371.744	367.437	359.034	350.525	347.164
35.0	358.613	366.176	369.538	365.336	356.513	348.004	344.538
35.5	356.302	364.181	367.437	363.130	354.097	345.273	341.807
36.0	353.781	361.870	365.336	360.819	351.576	342.647	338.866
36.5	351.366	359.664	363.130	358.508	349.055	339.916	335.924
37.0	348.844	357.353	360.819	356.197	346.534	337.290	333.088
37.5	346.323	354.937	358.613	353.781	343.908	334.559	330.042
38.0	343.802	352.521	356.302	351.366	341.387	331.723	327.101
38.5	341.176	350.210	353.992	349.055	338.760	328.992	324.055
39.0	338.655	347.794	351.681	346.534	336.134	326.260	321.113
39.5	336.029	345.483	349.475	344.223	333.508	323.424	318.067
40.0	333.403	343.172	347.269	341.807	330.987	320.693	315.021

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

40.5	330.882	340.756	345.063	339.601	328.256	317.857	312.080
41.0	328.361	338.550	342.857	337.290	325.735	315.021	309.034
41.5	325.840	336.344	340.756	335.084	323.214	312.290	306.092
42.0	323.319	334.139	338.655	332.878	320.693	309.454	303.256
42.5	320.903	331.828	336.555	330.567	318.172	306.618	300.420
43.0	318.277	329.622	334.454	328.361	315.546	303.781	297.479
43.5	315.651	327.311	332.353	326.155	313.025	300.945	294.748
44.0	313.130	325.105	330.252	323.845	310.504	298.214	291.807
44.5	310.504	322.794	327.941	321.639	307.983	295.378	288.971
45.0	307.773	320.273	325.840	319.433	305.462	292.542	286.134
45.5	305.042	317.962	323.529	317.017	302.836	289.706	283.193
46.0	302.416	315.546	321.323	314.601	300.105	286.870	280.252
46.5	299.580	313.025	318.908	312.290	297.584	283.929	277.311
47.0	296.849	310.399	316.597	309.874	294.958	280.987	274.265
47.5	294.013	307.983	314.181	307.353	292.227	278.151	271.218
48.0	291.176	305.462	311.765	305.987	289.391	275.000	268.172
48.5	288.445	302.836	309.454	302.311	286.660	271.954	265.021
49.0	285.609	300.315	306.933	299.790	283.823	268.908	261.870
49.5	282.668	297.794	304.517	297.269	280.987	265.756	258.718
50.0	279.832	295.273	301.996	294.643	278.151	262.605	255.462
50.5	277.101	292.647	299.580	292.017	275.315	259.454	252.311
51.0	274.160	290.231	297.059	289.391	272.374	256.092	249.055
51.5	271.323	287.605	294.538	286.870	269.538	252.941	245.903
52.0	268.382	284.979	292.122	284.349	266.492	249.685	242.647
52.5	265.441	282.458	289.601	281.618	263.655	246.324	239.391
53.0	262.605	279.832	287.185	279.097	260.609	243.067	236.239
53.5	259.559	277.311	284.664	276.366	257.668	239.811	232.983
54.0	256.723	274.685	282.143	273.845	254.832	236.450	229.832
54.5	253.781	272.059	279.622	271.218	251.891	233.088	226.576
55.0	250.735	269.328	277.206	268.592	248.845	229.832	223.319
55.5	247.689	266.702	274.685	266.071	246.008	226.471	220.063
56.0	244.748	264.076	272.164	263.550	242.962	223.109	216.702
56.5	241.807	261.555	269.748	260.924	240.021	219.853	213.340
57.0	238.760	258.929	267.227	258.403	237.290	216.492	209.979
57.5	235.924	256.197	264.706	255.882	234.244	213.130	206.513
58.0	232.983	253.571	262.290	253.256	231.408	209.769	203.046
58.5	230.147	251.050	259.769	250.630	228.466	206.408	199.475
59.0	227.311	248.529	257.353	248.109	225.525	203.151	195.903
59.5	224.580	246.008	254.937	245.588	222.689	199.790	192.122
60.0	221.849	243.592	252.626	243.067	219.958	196.429	188.550
60.5	219.013	241.071	250.315	240.546	217.227	193.067	184.874
61.0	216.281	238.760	248.004	238.130	214.286	189.811	181.092
61.5	213.550	236.450	245.693	235.819	211.555	186.450	177.416
62.0	210.924	234.034	243.592	233.403	208.929	183.088	173.739
62.5	208.088	231.618	241.281	231.092	206.197	179.832	170.063
63.0	205.357	229.307	238.971	228.676	203.571	176.471	166.281
63.5	202.626	226.891	236.660	226.471	200.840	173.214	162.605
64.0	199.790	224.580	234.454	224.160	198.214	169.958	159.034
64.5	197.059	222.164	232.143	221.744	195.588	166.702	155.357
65.0	194.328	219.748	229.622	219.433	192.857	163.340	151.786
65.5	191.597	217.332	227.206	217.122	190.336	159.979	148.214
66.0	188.866	214.916	224.895	215.126	187.710	156.723	144.643
66.5	186.134	212.500	222.584	212.500	185.084	153.571	140.966
67.0	183.613	210.084	220.273	209.979	182.563	150.315	137.395
67.5	180.882	207.773	217.962	207.668	180.042	147.059	133.718
68.0	178.256	205.252	215.546	205.357	177.416	143.908	130.147

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

68.5	175.735	202.836	213.235	202.941	174.790	140.756	126.366
69.0	173.109	200.420	210.819	200.525	172.269	137.500	122.689
69.5	170.588	198.004	208.508	198.004	169.643	134.244	119.013
70.0	168.067	195.588	206.092	195.588	167.122	131.092	115.231
70.5	165.441	193.067	203.676	193.067	164.496	127.941	111.450
71.0	162.920	190.651	201.366	190.756	161.870	124.790	107.668
71.5	160.294	188.130	198.950	188.235	159.244	121.639	103.929
72.0	157.773	185.819	196.534	185.819	156.618	118.592	100.074
72.5	155.252	183.403	194.223	183.508	154.097	115.441	96.303
73.0	152.626	180.987	191.912	181.092	151.576	112.500	92.510
73.5	150.000	178.571	189.601	178.781	149.055	109.559	88.813
74.0	147.374	176.155	187.185	176.366	146.534	106.513	85.074
74.5	144.853	173.845	184.979	174.055	144.013	103.687	81.366
75.0	142.227	171.534	182.668	171.744	141.702	100.819	77.731
75.5	139.706	169.118	180.357	169.433	139.181	98.067	74.464
76.0	137.080	166.807	178.151	167.227	136.765	95.326	70.840
76.5	134.664	164.496	175.945	164.916	134.349	92.626	67.269
77.0	132.038	162.395	173.739	162.605	131.933	90.021	63.697
77.5	129.622	160.189	171.639	160.399	129.517	87.479	60.189
78.0	127.101	157.878	169.433	158.193	127.206	84.968	56.723
78.5	124.685	155.777	167.227	155.882	124.790	82.521	53.256
79.0	122.374	153.466	164.916	153.676	122.374	79.937	49.863
79.5	119.853	151.260	162.815	151.471	120.063	77.363	46.502
80.0	117.437	149.055	160.609	149.370	117.752	75.116	43.172
80.5	115.126	146.744	158.298	147.059	115.441	72.658	39.895
81.0	112.710	144.538	156.197	144.853	113.130	70.137	36.639
81.5	110.294	142.332	153.887	142.542	110.714	67.595	33.477
82.0	107.983	140.021	151.681	140.336	108.508	65.116	30.336
82.5	105.672	137.815	149.370	138.130	106.197	62.679	27.321
83.0	103.393	135.609	147.269	135.819	103.950	60.305	24.359
83.5	101.124	133.298	145.063	133.613	101.817	57.941	21.513
84.0	98.939	131.197	142.857	131.408	99.643	55.672	18.771
84.5	96.712	128.992	140.546	129.202	97.416	53.445	16.145
85.0	94.548	126.786	138.445	126.996	95.315	51.282	13.697
85.5	92.321	124.580	136.239	124.895	93.183	49.149	11.366
86.0	90.168	122.374	134.034	122.689	90.998	47.059	9.191
86.5	88.067	120.168	131.933	120.483	88.887	45.032	7.237
87.0	85.840	117.962	129.727	118.277	86.754	43.057	5.462
87.5	83.687	115.756	127.521	116.071	84.685	41.113	3.918
88.0	81.597	113.655	125.210	113.866	82.595	39.202	2.584
88.5	79.496	111.345	123.004	111.765	80.494	37.300	1.513
89.0	77.342	109.139	120.798	109.559	78.309	35.452	0.683
89.5	75.630	107.038	118.592	107.248	76.239	33.645	0.126
90.0	73.582	104.800	116.492	105.147	74.601	31.922	0.000
90.5	71.597	102.784	114.391	103.057	72.626	30.189	0.000
91.0	69.569	100.672	112.080	100.935	70.557	28.477	0.000
91.5	67.521	98.540	109.874	98.729	68.466	26.828	0.000
92.0	65.452	96.282	107.563	96.555	66.429	25.231	0.000
92.5	63.435	94.107	105.357	94.359	64.422	23.697	0.000
93.0	61.471	91.912	103.120	92.174	62.447	22.174	0.000
93.5	59.496	89.811	100.987	90.063	60.504	20.714	0.000
94.0	57.563	87.731	98.834	88.004	58.582	19.296	0.000
94.5	55.630	85.630	96.691	85.872	56.702	17.868	0.000
95.0	53.729	83.550	94.538	83.834	54.832	16.471	0.000
95.5	51.859	81.481	92.363	81.712	52.983	15.095	0.000
96.0	49.989	79.464	90.273	79.716	51.155	13.708	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

96.5	48.130	77.353	88.120	77.658	49.328	12.342	0.000
97.0	46.250	75.546	85.977	75.819	47.500	10.977	0.000
97.5	44.412	73.708	83.876	73.992	45.693	9.601	0.000
98.0	42.563	71.670	81.796	71.985	43.887	8.225	0.000
98.5	40.714	69.622	79.664	69.947	42.090	6.849	0.000
99.0	38.887	67.595	77.553	67.941	40.284	5.473	0.000
99.5	37.048	65.515	75.851	65.903	38.477	4.107	0.000
100.0	35.221	63.456	73.739	63.887	36.691	2.773	0.000
100.5	33.403	61.387	71.628	61.849	34.874	1.439	0.000
101.0	31.597	59.349	69.485	59.832	33.088	0.231	0.000
101.5	29.790	57.321	67.374	57.826	31.282	0.000	0.000
102.0	27.973	55.284	65.284	55.819	29.475	0.000	0.000
102.5	26.187	53.246	63.204	53.824	27.689	0.000	0.000
103.0	24.380	51.218	61.092	51.817	25.872	0.000	0.000
103.5	22.563	49.202	58.992	49.811	24.065	0.000	0.000
104.0	20.725	47.185	56.901	47.815	22.237	0.000	0.000
104.5	18.887	45.168	54.832	45.809	20.410	0.000	0.000
105.0	17.006	43.120	52.752	43.771	18.582	0.000	0.000
105.5	15.116	41.082	50.630	41.723	16.733	0.000	0.000
106.0	13.204	39.055	48.508	39.685	14.853	0.000	0.000
106.5	11.282	36.996	46.397	37.637	12.983	0.000	0.000
107.0	9.307	34.947	44.254	35.557	11.082	0.000	0.000
107.5	7.311	32.836	42.122	33.466	9.181	0.000	0.000
108.0	5.347	30.725	39.968	31.387	7.258	0.000	0.000
108.5	3.414	28.613	37.805	29.286	5.326	0.000	0.000
109.0	1.681	26.471	35.641	27.185	3.424	0.000	0.000
109.5	0.504	24.328	33.456	25.053	1.618	0.000	0.000
110.0	0.105	22.132	31.261	22.910	0.315	0.000	0.000
110.5	0.000	19.926	29.065	20.788	0.000	0.000	0.000
111.0	0.000	17.710	26.817	18.561	0.000	0.000	0.000
111.5	0.000	15.483	24.580	16.366	0.000	0.000	0.000
112.0	0.000	13.235	22.321	14.160	0.000	0.000	0.000
112.5	0.000	10.966	20.053	11.933	0.000	0.000	0.000
113.0	0.000	8.687	17.742	9.674	0.000	0.000	0.000
113.5	0.000	6.408	15.420	7.416	0.000	0.000	0.000
114.0	0.000	4.191	13.099	5.158	0.000	0.000	0.000
114.5	0.000	2.164	10.746	2.983	0.000	0.000	0.000
115.0	0.000	0.683	8.403	1.134	0.000	0.000	0.000
115.5	0.000	0.042	6.040	0.137	0.000	0.000	0.000
116.0	0.000	0.000	3.739	0.000	0.000	0.000	0.000
116.5	0.000	0.000	1.712	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

CANDELA TABULATION - (Cont.)

152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	162.96	N.A.	10.50
0-30	347.14	N.A.	22.40
0-40	571.49	N.A.	36.90
0-60	1034.59	N.A.	66.80
0-80	1372.46	N.A.	88.60
0-90	1468.69	N.A.	94.90
10-90	1426.67	N.A.	92.10
20-40	408.53	N.A.	26.40
20-50	646.07	N.A.	41.70
40-70	655.25	N.A.	42.30
60-80	337.87	N.A.	21.80
70-80	145.71	N.A.	9.40
80-90	96.23	N.A.	6.20
90-110	77.25	N.A.	5.00
90-120	79.59	N.A.	5.10
90-130	79.59	N.A.	5.10
90-150	79.59	N.A.	5.10
90-180	79.59	N.A.	5.10
110-180	2.34	N.A.	0.20
0-180	1548.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.02
10-20	120.94
20-30	184.18
30-40	224.35
40-50	237.53
50-60	225.56
60-70	192.16
70-80	145.71
80-90	96.23
90-100	54.93
100-110	22.32
110-120	2.34
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

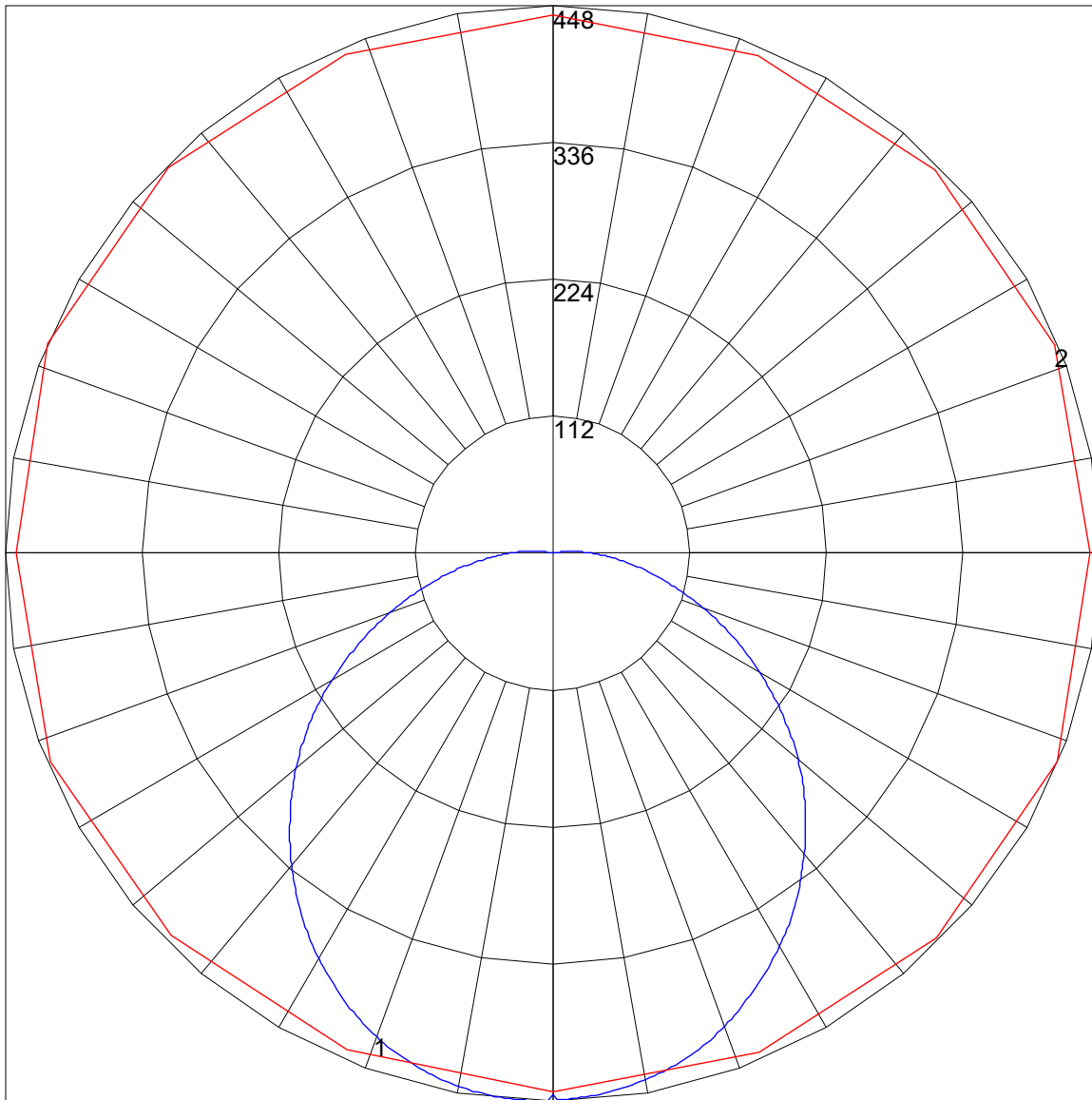
IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2440-XX.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	105	100	94	90	102	97	92	88	91	88	84	87	83	81	82	80	77	75
2	95	86	78	71	92	83	76	70	79	73	68	75	70	65	71	67	63	61
3	86	75	66	59	83	73	64	58	69	62	56	65	59	54	62	57	53	50
4	79	66	56	49	76	64	55	48	61	53	47	58	51	46	55	49	45	42
5	72	58	49	42	70	57	48	41	54	46	41	52	45	40	49	43	39	36
6	66	53	43	36	64	51	42	36	49	41	35	47	40	35	45	39	34	32
7	62	47	38	32	59	46	38	32	44	37	31	42	36	30	41	35	30	28
8	57	43	34	28	55	42	34	28	41	33	28	39	32	27	37	31	27	25
9	53	40	31	25	52	39	31	25	37	30	25	36	29	24	34	28	24	22
10	50	37	28	23	49	36	28	23	34	27	23	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 448.319 Located At Horizontal Angle = 157.5, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)