

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_32W_5000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2025-03-20

[TEST DATE] 2/23/2024

[MANUFAC] WILLIAMS INDOOR, H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMCAT] FS-4-LS-8CS-DIM-UNV_32W_5000K_

[LUMINAIRE] 45 INCH, 224 LEDS, LUMEN/WATTAGE/CCT SELECTABLE, LED STRIP

[MORE] WITH FROSTED ACRYLIC LENS

[SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4550
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	32.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19610	18555	19235
55	17849	17178	18301
65	15724	15671	17311
75	12948	14049	16093
85	8954	12933	15318

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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>
0.0	1431.709	1431.709	1431.709	1431.709	1431.709	1431.709	1431.709	1431.709	1431.709
0.5	1412.871	1437.250	1433.925	1433.925	1427.277	1435.034	1433.925	1439.466	1413.979
1.0	1411.763	1436.142	1431.709	1435.034	1426.168	1435.034	1431.709	1438.358	1413.979
1.5	1413.979	1436.142	1429.493	1433.925	1427.277	1435.034	1431.709	1437.250	1413.979
2.0	1413.979	1435.034	1431.709	1435.034	1426.168	1437.250	1431.709	1438.358	1412.871
2.5	1412.871	1433.925	1429.493	1433.925	1426.168	1432.817	1431.709	1436.142	1410.655
3.0	1409.546	1433.925	1428.385	1433.925	1426.168	1433.925	1430.601	1437.250	1410.655
3.5	1410.655	1431.709	1427.277	1430.601	1423.952	1431.709	1429.493	1433.925	1411.763
4.0	1407.330	1429.493	1425.060	1431.709	1425.060	1430.601	1428.385	1435.034	1408.438
4.5	1408.438	1426.168	1425.060	1429.493	1422.844	1430.601	1426.168	1432.817	1406.222
5.0	1402.898	1425.060	1421.736	1428.385	1422.844	1429.493	1425.060	1430.601	1406.222
5.5	1401.790	1425.060	1420.628	1427.277	1422.844	1428.385	1425.060	1428.385	1402.898
6.0	1399.573	1421.736	1418.412	1426.168	1419.520	1426.168	1421.736	1428.385	1401.790
6.5	1397.357	1419.520	1417.303	1422.844	1417.303	1425.060	1420.628	1426.168	1399.573
7.0	1394.033	1416.195	1415.087	1419.520	1415.087	1422.844	1419.520	1425.060	1400.681
7.5	1392.924	1415.087	1411.763	1419.520	1412.871	1420.628	1416.195	1422.844	1396.249
8.0	1390.708	1411.763	1409.546	1416.195	1412.871	1419.520	1415.087	1420.628	1394.033
8.5	1387.384	1408.438	1406.222	1412.871	1408.438	1416.195	1412.871	1417.303	1389.600
9.0	1385.168	1405.114	1401.790	1411.763	1406.222	1412.871	1409.546	1416.195	1387.384
9.5	1378.519	1401.790	1401.790	1409.546	1404.006	1411.763	1407.330	1411.763	1384.059
10.0	1377.411	1400.681	1396.249	1402.898	1402.898	1408.438	1405.114	1409.546	1382.951
10.5	1369.654	1394.033	1394.033	1402.898	1397.357	1406.222	1401.790	1405.114	1377.411
11.0	1368.546	1392.924	1390.708	1398.465	1395.141	1402.898	1396.249	1399.573	1377.411
11.5	1364.113	1387.384	1386.276	1395.141	1392.924	1398.465	1394.033	1398.465	1371.870
12.0	1359.680	1382.951	1384.059	1391.816	1388.492	1396.249	1389.600	1394.033	1366.329
12.5	1354.140	1378.519	1379.627	1389.600	1388.492	1390.708	1386.276	1388.492	1364.113
13.0	1351.924	1376.302	1374.086	1385.168	1384.059	1388.492	1382.951	1386.276	1357.464
13.5	1348.599	1370.762	1371.870	1379.627	1379.627	1384.059	1379.627	1382.951	1353.032
14.0	1341.950	1365.221	1366.329	1376.302	1375.194	1380.735	1374.086	1378.519	1348.599
14.5	1334.193	1359.680	1360.789	1371.870	1370.762	1375.194	1370.762	1374.086	1345.275
15.0	1330.869	1356.356	1358.572	1369.654	1366.329	1371.870	1365.221	1368.546	1339.734
15.5	1326.436	1353.032	1351.924	1364.113	1361.897	1366.329	1361.897	1363.005	1335.302
16.0	1323.112	1345.275	1347.491	1360.789	1356.356	1361.897	1355.248	1358.572	1327.545
16.5	1313.139	1340.842	1340.842	1356.356	1351.924	1357.464	1349.707	1353.032	1326.436
17.0	1307.598	1335.302	1337.518	1350.815	1347.491	1350.815	1345.275	1348.599	1318.679
17.5	1302.057	1328.653	1330.869	1344.167	1341.950	1345.275	1338.626	1344.167	1315.355
18.0	1298.733	1320.896	1324.220	1337.518	1337.518	1338.626	1334.193	1335.302	1308.706
18.5	1292.084	1316.463	1318.679	1334.193	1331.977	1334.193	1327.545	1330.869	1303.166
19.0	1283.219	1309.814	1312.031	1327.545	1325.328	1328.653	1323.112	1324.220	1296.517
19.5	1278.787	1304.274	1306.490	1322.004	1318.679	1322.004	1317.571	1318.679	1288.760
20.0	1272.138	1296.517	1299.841	1315.355	1313.139	1317.571	1310.923	1312.031	1283.219
20.5	1264.381	1289.868	1294.301	1309.814	1307.598	1309.814	1305.382	1305.382	1277.679
21.0	1258.840	1283.219	1286.544	1302.057	1300.949	1305.382	1296.517	1300.949	1268.813
21.5	1249.975	1276.570	1279.895	1295.409	1296.517	1299.841	1292.084	1293.192	1263.273
22.0	1244.435	1271.030	1274.354	1288.760	1289.868	1292.084	1285.435	1286.544	1256.624
22.5	1234.461	1261.057	1266.597	1283.219	1285.435	1288.760	1278.787	1278.787	1247.759
23.0	1227.813	1254.408	1259.948	1275.462	1278.787	1281.003	1273.246	1272.138	1243.326
23.5	1222.272	1246.651	1254.408	1269.922	1274.354	1277.679	1266.597	1265.489	1235.569
24.0	1211.190	1240.002	1246.651	1263.273	1267.705	1271.030	1259.948	1255.516	1224.488
24.5	1206.758	1233.353	1238.894	1257.732	1262.165	1265.489	1252.191	1248.867	1217.839
25.0	1197.893	1222.272	1232.245	1252.191	1258.840	1259.948	1245.543	1242.218	1211.190
25.5	1187.920	1215.623	1222.272	1246.651	1253.300	1253.300	1240.002	1235.569	1204.542
26.0	1179.055	1208.974	1215.623	1237.786	1246.651	1246.651	1232.245	1227.813	1194.568
26.5	1171.298	1199.001	1208.974	1233.353	1241.110	1240.002	1224.488	1218.947	1187.920

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27.0	1164.649	1191.244	1202.325	1225.596	1232.245	1233.353	1216.731	1211.190	1179.055
27.5	1154.676	1184.595	1194.568	1220.056	1226.704	1225.596	1210.082	1203.434	1170.190
28.0	1146.919	1173.514	1184.595	1213.407	1221.164	1218.947	1201.217	1194.568	1162.433
28.5	1139.162	1165.757	1177.946	1205.650	1214.515	1212.299	1194.568	1186.812	1154.676
29.0	1130.297	1156.892	1170.190	1199.001	1207.866	1204.542	1186.812	1179.055	1144.702
29.5	1121.432	1149.135	1162.433	1191.244	1200.109	1197.893	1180.163	1169.081	1135.837
30.0	1110.350	1140.270	1154.676	1183.487	1193.460	1191.244	1171.298	1161.324	1125.864
30.5	1101.596	1131.405	1145.811	1176.838	1186.812	1183.487	1163.541	1152.459	1116.999
31.0	1092.288	1121.432	1138.054	1169.081	1180.163	1176.838	1154.676	1143.594	1110.350
31.5	1085.306	1111.458	1130.297	1161.324	1172.406	1170.190	1148.027	1134.729	1098.382
32.0	1073.671	1104.588	1121.432	1154.676	1165.757	1163.541	1140.270	1125.864	1090.182
32.5	1066.136	1094.615	1112.567	1146.919	1159.108	1155.784	1130.297	1115.891	1082.536
33.0	1055.276	1085.750	1102.815	1140.270	1153.568	1149.135	1121.432	1106.139	1070.125
33.5	1045.524	1076.331	1094.504	1133.621	1145.811	1140.270	1113.675	1097.607	1062.257
34.0	1036.659	1067.022	1088.077	1124.756	1139.162	1133.621	1106.583	1089.296	1054.168
34.5	1026.354	1056.606	1078.658	1116.999	1132.513	1125.864	1097.828	1078.104	1042.865
35.0	1018.264	1047.630	1070.790	1110.350	1124.756	1118.107	1089.517	1069.460	1035.440
35.5	1008.180	1037.324	1062.922	1103.147	1119.215	1110.350	1080.098	1059.044	1023.473
36.0	996.323	1026.686	1053.392	1095.280	1111.458	1104.366	1071.233	1049.846	1015.494
36.5	986.018	1017.489	1046.079	1087.079	1104.920	1096.277	1063.033	1040.205	1006.297
37.0	978.039	1006.961	1036.105	1080.874	1098.161	1088.963	1053.835	1030.565	998.650
37.5	967.401	998.318	1028.016	1072.785	1090.958	1080.209	1046.411	1021.700	989.010
38.0	955.987	988.234	1018.818	1065.582	1083.866	1072.452	1037.546	1012.613	977.596
38.5	946.790	978.150	1011.394	1057.492	1075.887	1064.806	1027.794	1003.637	966.736
39.0	935.708	967.401	1002.086	1049.625	1068.352	1056.827	1020.037	994.994	956.209
39.5	925.181	956.541	993.664	1041.424	1061.482	1049.070	1010.618	985.242	943.909
40.0	913.878	947.787	984.910	1033.889	1055.054	1042.089	1001.864	976.266	932.384
40.5	904.348	937.814	976.266	1025.910	1046.522	1034.111	993.221	964.852	921.524
41.0	892.270	926.622	967.069	1018.597	1037.989	1026.354	984.355	954.768	910.665
41.5	882.296	915.651	959.533	1011.061	1032.227	1017.599	974.826	942.690	899.694
42.0	870.772	905.900	949.892	1002.750	1024.581	1011.394	966.071	931.276	889.832
42.5	860.466	895.483	940.695	995.437	1017.267	1002.529	956.209	921.081	878.972
43.0	849.385	886.286	931.830	987.126	1009.732	993.996	947.898	908.892	868.112
43.5	839.744	876.756	922.522	978.815	1002.972	985.796	939.698	898.143	858.582
44.0	830.325	865.453	913.878	971.501	995.326	978.704	929.614	886.618	847.168
44.5	817.138	854.815	903.240	962.968	987.680	971.169	922.078	876.423	837.084
45.0	807.497	844.287	895.926	955.212	980.145	961.639	913.324	864.899	826.668
45.5	797.524	833.982	885.621	947.011	971.058	954.547	904.127	855.590	816.252
46.0	786.554	825.227	877.088	938.035	963.523	946.901	895.483	844.620	804.505
46.5	776.913	814.811	867.558	928.838	956.320	937.592	886.618	834.757	794.865
47.0	765.610	803.619	858.582	922.300	948.341	931.165	878.418	824.563	784.891
47.5	754.528	793.646	849.385	913.102	941.249	923.297	869.442	814.035	772.148
48.0	745.885	783.340	840.963	906.564	932.162	913.213	860.688	803.397	763.504
48.5	733.806	773.034	831.876	896.480	924.959	905.789	851.601	793.202	750.761
49.0	726.714	764.391	823.454	888.834	916.981	897.699	842.182	783.340	740.788
49.5	717.184	752.866	814.479	880.745	908.337	889.942	830.657	772.369	730.925
50.0	705.992	744.001	805.503	872.434	901.245	881.631	822.346	761.842	722.393
50.5	694.911	736.133	794.532	864.012	893.267	872.988	812.816	751.980	712.973
51.0	684.494	726.493	786.997	855.479	885.842	864.677	802.289	741.120	700.784
51.5	674.189	716.852	777.134	848.166	878.972	856.477	793.092	734.804	690.257
52.0	663.329	706.103	768.934	840.076	870.328	848.387	783.118	724.720	679.065
52.5	653.356	696.351	759.737	831.544	862.239	839.855	774.364	715.744	668.870
53.0	642.164	685.603	750.096	823.454	853.928	832.652	765.388	704.884	658.896
53.5	632.080	675.629	741.120	814.811	845.617	823.787	755.415	694.468	647.261
54.0	621.109	666.321	733.031	806.389	836.752	815.476	747.326	684.273	635.958
54.5	610.471	655.461	726.493	797.081	829.882	807.608	737.574	673.635	625.874

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CANDELA TABULATION - (Cont.)

55.0	599.057	645.266	717.960	789.102	821.571	798.632	732.033	663.994	614.682
55.5	588.641	636.180	708.541	780.016	812.595	790.100	723.390	653.799	603.601
56.0	578.224	625.098	699.233	771.150	805.059	782.121	713.860	643.272	593.738
56.5	568.251	614.793	689.924	763.172	795.751	771.926	703.887	631.969	582.435
57.0	557.391	604.376	680.948	754.085	787.772	763.504	694.578	622.106	570.578
57.5	547.197	594.957	672.527	745.663	778.243	754.307	685.048	611.025	560.162
58.0	537.223	584.541	662.443	737.020	769.156	745.442	675.297	601.163	549.634
58.5	526.474	574.235	653.134	731.036	760.734	738.128	666.099	590.857	538.442
59.0	516.612	564.262	644.823	724.609	752.534	731.036	656.015	579.887	528.580
59.5	505.974	554.510	635.072	714.192	743.225	722.725	647.039	570.246	517.277
60.0	495.779	544.648	624.988	705.549	737.796	713.528	637.399	560.162	507.747
60.5	485.474	534.564	615.568	697.681	729.817	704.662	628.866	549.302	496.001
61.0	474.281	524.591	606.814	687.708	721.617	695.132	619.004	539.994	485.584
61.5	464.197	514.507	597.949	678.510	712.973	686.046	610.028	528.912	475.057
62.0	453.892	504.644	588.862	669.867	703.333	677.846	599.722	519.161	464.308
62.5	443.697	495.003	579.776	660.891	693.914	667.872	591.079	508.744	453.892
63.0	433.834	484.919	570.578	651.915	685.048	659.118	581.549	498.993	443.697
63.5	423.418	475.500	561.270	642.274	676.294	649.921	571.797	488.798	433.502
64.0	412.669	465.638	552.405	633.299	667.208	641.056	562.821	478.714	422.421
64.5	401.588	455.776	542.542	623.879	657.456	632.523	553.070	468.962	412.115
65.0	391.947	446.689	533.345	614.904	648.480	622.771	544.205	458.989	401.699
65.5	382.306	436.826	524.258	606.593	640.169	613.795	535.340	449.016	391.615
66.0	371.779	427.075	515.615	596.176	630.861	604.265	525.366	438.932	381.198
66.5	362.581	417.656	506.085	587.643	621.109	594.957	516.612	429.069	371.003
67.0	352.497	408.458	496.887	578.335	612.133	585.095	506.639	419.540	361.363
67.5	342.967	398.928	488.133	568.584	602.382	576.341	498.217	410.120	351.500
68.0	333.105	389.731	478.271	560.494	593.517	567.254	488.576	400.369	341.970
68.5	323.464	380.644	469.849	550.410	584.319	557.391	479.157	390.839	331.332
69.0	313.824	370.782	460.762	542.210	575.011	548.748	470.070	381.863	321.913
69.5	303.629	361.584	451.786	532.458	565.592	539.661	461.316	372.222	311.386
70.0	294.431	352.497	442.367	523.483	556.172	529.799	451.786	362.360	301.967
70.5	285.234	342.746	433.613	513.953	547.086	521.155	442.700	352.830	292.437
71.0	275.150	334.102	424.748	505.531	537.888	511.847	433.834	343.411	282.574
71.5	266.063	324.794	416.437	496.444	528.691	503.314	424.415	334.102	272.823
72.0	256.644	316.372	406.907	486.803	519.382	493.785	415.994	325.237	262.628
72.5	247.336	307.286	398.374	478.049	510.739	485.141	406.796	315.707	253.098
73.0	237.916	298.753	389.287	468.519	501.209	475.389	398.042	306.510	244.454
73.5	229.051	290.109	380.755	459.100	491.679	466.414	389.287	297.534	234.814
74.0	219.965	281.134	372.222	451.121	482.925	457.327	380.201	288.558	225.727
74.5	210.324	272.047	362.914	441.702	473.395	448.573	372.001	279.250	216.086
75.0	201.126	263.736	354.603	433.280	464.973	439.264	363.468	270.717	207.332
75.5	192.815	255.314	346.514	423.972	455.776	430.399	354.492	261.630	198.245
76.0	183.618	246.892	337.981	415.661	446.800	421.867	346.403	253.319	189.269
76.5	175.307	238.692	329.670	406.796	437.713	412.669	337.648	244.344	181.069
77.0	167.107	230.492	321.359	397.820	428.626	404.136	328.894	236.033	172.315
77.5	158.685	222.403	313.269	389.509	420.315	395.161	320.583	227.278	163.893
78.0	150.041	214.313	305.291	380.866	411.007	386.739	312.605	219.411	155.471
78.5	141.841	206.667	297.091	372.444	402.585	378.317	304.515	211.321	147.160
79.0	133.752	198.799	289.445	363.911	393.720	369.674	296.204	203.564	139.292
79.5	126.327	191.042	281.909	355.822	385.631	362.138	288.558	195.586	130.871
80.0	118.792	183.285	274.152	347.289	377.541	353.384	280.580	187.829	123.335
80.5	111.035	175.861	266.506	339.532	368.676	345.516	273.155	180.847	115.578
81.0	103.500	168.769	259.082	331.332	360.698	337.094	265.620	173.201	108.376
81.5	96.297	161.566	251.546	323.575	352.497	329.227	258.195	166.220	101.062
82.0	89.205	154.696	244.344	315.818	343.743	321.470	250.771	159.350	93.970
82.5	82.667	147.603	237.141	308.726	335.765	313.269	243.235	152.590	87.210

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CANDELA TABULATION - (Cont.)

83.0	75.686	140.955	230.049	300.969	328.229	305.513	236.476	145.830	80.451
83.5	69.148	134.527	223.067	293.434	320.251	298.310	229.162	139.292	73.913
84.0	62.720	128.211	216.308	286.009	312.715	290.996	222.624	132.865	67.485
84.5	56.515	122.006	209.548	279.028	305.180	283.571	215.754	126.660	61.501
85.0	50.753	116.243	202.789	271.714	297.866	276.147	208.994	120.676	55.296
85.5	44.990	110.149	196.583	264.512	290.442	269.277	202.567	114.249	49.534
86.0	39.228	104.497	190.377	257.974	283.239	262.406	195.918	108.486	43.660
86.5	33.798	98.956	184.394	251.214	276.369	255.314	189.823	102.613	38.009
87.0	28.368	93.527	178.188	244.676	269.387	248.887	183.839	97.073	32.358
87.5	23.382	88.429	172.426	238.692	262.739	242.571	177.634	91.643	26.928
88.0	18.506	82.888	166.996	232.597	256.644	236.365	171.982	86.102	21.498
88.5	13.630	78.123	162.009	227.057	250.438	230.714	166.663	80.672	15.957
89.0	8.754	73.580	157.355	221.627	245.008	224.951	161.455	75.907	10.749
89.5	4.322	69.812	152.922	216.640	239.579	219.965	157.023	71.696	5.651
90.0	1.551	66.377	149.044	211.764	234.370	214.867	152.922	68.039	1.773
90.5	0.997	63.496	145.276	207.110	229.162	209.881	148.822	64.937	0.997
91.0	0.997	61.058	141.509	202.567	224.286	205.448	144.611	62.499	0.887
91.5	0.997	59.285	138.295	198.134	219.632	201.126	141.398	60.615	0.887
92.0	0.997	57.734	134.971	194.256	215.421	197.248	138.295	59.064	0.887
92.5	0.997	56.293	132.644	190.710	211.321	193.480	135.636	57.623	0.887
93.0	0.997	54.963	130.206	187.275	207.443	190.045	133.198	56.182	0.887
93.5	0.997	53.634	127.989	184.283	204.118	186.831	130.871	54.853	0.887
94.0	0.997	52.415	125.884	181.180	200.794	183.839	128.876	53.523	0.887
94.5	0.997	51.196	124.000	178.520	197.802	181.069	126.771	52.193	0.887
95.0	0.997	49.977	122.116	175.861	194.921	178.077	124.665	50.974	0.887
95.5	0.997	48.869	120.011	173.201	191.707	175.528	122.670	49.866	0.887
96.0	0.997	47.761	118.238	170.542	188.937	172.758	120.676	48.758	0.887
96.5	0.997	46.652	116.243	168.104	186.167	170.320	118.570	47.539	0.887
97.0	0.997	45.544	114.470	165.334	183.285	167.439	116.797	46.431	0.887
97.5	0.997	44.436	112.476	163.117	180.515	165.112	114.913	45.433	0.887
98.0	0.997	43.439	110.703	160.458	177.966	162.563	112.919	44.325	0.887
98.5	0.997	42.552	109.040	158.131	175.418	160.015	111.146	43.217	0.887
99.0	0.997	41.444	107.046	155.914	172.869	157.577	109.262	42.220	0.887
99.5	0.997	40.447	105.384	153.587	170.209	155.250	107.489	41.223	0.887
100.0	0.997	39.560	103.500	151.260	167.661	152.922	105.605	40.225	0.887
100.5	0.997	38.563	101.838	148.933	165.001	150.706	103.943	39.339	0.997
101.0	0.997	37.787	100.175	146.606	162.674	148.490	102.281	38.341	0.997
101.5	0.997	36.790	98.402	144.390	160.347	146.052	100.397	37.455	0.997
102.0	1.108	36.014	96.851	142.174	157.687	144.057	98.846	36.568	0.997
102.5	1.108	35.128	95.189	140.068	155.139	141.952	97.073	35.682	0.997
103.0	1.108	34.352	93.527	137.852	152.812	139.736	95.410	34.795	0.997
103.5	1.108	33.466	91.864	135.968	150.595	137.519	93.859	33.909	0.997
104.0	1.108	32.690	90.424	133.973	148.379	135.414	92.086	33.022	0.997
104.5	1.108	31.914	88.762	131.646	146.274	133.309	90.535	32.247	1.108
105.0	1.108	31.139	87.321	129.762	143.836	131.314	88.983	31.471	1.108
105.5	1.108	30.363	85.880	127.768	141.730	129.098	87.432	30.695	1.108
106.0	1.108	29.587	84.329	125.662	139.625	127.103	85.770	29.920	1.108
106.5	1.108	28.922	82.888	123.889	137.187	125.108	84.329	29.255	1.108
107.0	1.219	28.147	81.448	121.895	135.303	123.003	82.778	28.479	1.108
107.5	1.219	27.482	79.896	119.789	133.309	121.119	81.448	27.814	1.108
108.0	1.219	26.817	78.456	118.127	131.203	119.235	80.007	27.149	1.108
108.5	1.219	26.041	77.237	116.132	129.208	117.462	78.456	26.374	1.219
109.0	1.219	25.376	75.796	114.249	127.214	115.578	77.015	25.709	1.219
109.5	1.219	24.711	74.356	112.365	125.330	113.695	75.686	25.044	1.219
110.0	1.219	24.157	73.137	110.592	123.335	111.811	74.356	24.379	1.219
110.5	1.219	23.492	71.807	108.930	121.341	109.927	72.915	23.714	1.219

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CANDELA TABULATION - (Cont.)

111.0	1.219	22.828	70.477	107.157	119.568	108.376	71.585	23.160	1.219
111.5	1.330	22.273	69.258	105.494	117.684	106.492	70.145	22.495	1.219
112.0	1.330	21.609	67.929	103.611	115.911	104.719	68.926	21.830	1.219
112.5	1.330	21.055	66.599	102.170	114.027	103.056	67.596	21.276	1.330
113.0	1.330	20.500	65.491	100.286	112.143	101.394	66.266	20.611	1.330
113.5	1.330	19.946	64.050	98.624	110.259	99.510	65.047	20.057	1.330
114.0	1.330	19.282	62.942	97.073	108.708	97.848	63.829	19.503	1.330
114.5	1.330	18.727	61.723	95.410	106.824	96.297	62.499	18.838	1.330
115.0	1.330	18.284	60.504	93.859	105.162	94.635	61.169	18.284	1.330
115.5	1.330	17.619	59.285	92.308	103.389	92.972	59.950	17.730	1.330
116.0	1.330	17.176	58.177	90.535	101.727	91.421	58.731	17.176	1.441
116.5	1.330	16.622	56.958	89.094	100.065	89.870	57.623	16.733	1.441
117.0	1.330	16.068	55.739	87.432	98.291	88.207	56.404	16.179	1.441
117.5	1.330	15.514	54.631	85.991	96.740	86.656	55.185	15.625	1.441
118.0	1.330	15.071	53.634	84.329	95.078	85.105	54.077	15.071	1.441
118.5	1.330	14.517	52.526	82.888	93.527	83.553	52.969	14.627	1.441
119.0	1.330	14.073	51.417	81.448	91.864	82.113	51.861	14.073	1.441
119.5	1.330	13.519	50.309	80.007	90.202	80.672	50.753	13.630	1.441
120.0	1.330	13.076	49.201	78.345	88.651	79.010	49.534	13.076	1.441
120.5	1.330	12.633	48.093	77.126	86.989	77.569	48.536	12.633	1.551
121.0	1.330	12.079	47.096	75.575	85.326	76.129	47.428	12.189	1.551
121.5	1.330	11.525	46.098	74.134	83.997	74.688	46.431	11.635	1.551
122.0	1.330	11.081	45.101	72.694	82.224	73.248	45.433	11.192	1.551
122.5	1.330	10.638	43.993	71.253	80.783	71.696	44.436	10.749	1.551
123.0	1.330	10.195	42.996	69.923	79.232	70.367	43.328	10.306	1.551
123.5	1.330	9.752	41.998	68.483	77.680	69.037	42.331	9.862	1.551
124.0	1.330	9.308	41.112	67.042	76.240	67.596	41.333	9.419	1.551
124.5	1.330	8.865	40.114	65.712	74.799	66.045	40.336	8.976	1.662
125.0	1.330	8.422	39.117	64.383	73.358	64.715	39.339	8.533	1.662
125.5	1.330	7.979	38.120	63.053	71.807	63.385	38.341	8.089	1.662
126.0	1.330	7.646	37.122	61.834	70.367	62.056	37.344	7.646	1.662
126.5	1.330	7.203	36.236	60.504	68.926	60.726	36.458	7.203	1.662
127.0	1.330	6.760	35.349	59.174	67.375	59.396	35.571	6.870	1.662
127.5	1.330	6.427	34.463	57.955	66.045	58.066	34.574	6.427	1.662
128.0	1.330	5.984	33.466	56.626	64.715	56.958	33.687	6.095	1.773
128.5	1.330	5.651	32.468	55.407	63.385	55.739	32.801	5.762	1.773
129.0	1.330	5.319	31.582	54.077	61.945	54.409	31.914	5.430	1.773
129.5	1.330	5.097	30.806	52.858	60.615	53.190	31.028	5.208	1.773
130.0	1.441	4.765	30.030	51.639	59.285	51.971	30.252	4.876	1.773
130.5	1.441	4.543	29.033	50.531	57.955	50.863	29.366	4.654	1.884
131.0	1.441	4.322	28.257	49.423	56.626	49.534	28.479	4.433	1.884
131.5	1.441	4.100	27.482	48.204	55.296	48.425	27.703	4.211	1.884
132.0	1.441	3.878	26.595	47.096	53.966	47.207	26.817	3.989	1.884
132.5	1.441	3.657	25.820	45.877	52.747	46.098	26.041	3.768	1.884
133.0	1.441	3.546	25.044	44.658	51.528	44.879	25.265	3.657	1.995
133.5	1.441	3.435	24.157	43.550	50.198	43.771	24.379	3.546	1.995
134.0	1.441	3.324	23.271	42.442	49.090	42.552	23.603	3.435	1.995
134.5	1.441	3.214	22.384	41.333	47.761	41.444	22.828	3.324	1.995
135.0	1.441	3.103	21.498	40.225	46.542	40.336	22.052	3.214	1.995
135.5	1.441	2.992	20.722	39.006	45.323	39.228	21.276	3.103	1.995
136.0	1.441	2.881	19.836	37.898	44.104	38.120	20.500	2.992	1.995
136.5	1.441	2.881	19.060	36.901	42.885	37.012	19.836	2.992	2.105
137.0	1.441	2.770	18.173	35.904	41.666	35.904	19.060	2.881	2.105
137.5	1.441	2.770	17.398	34.795	40.558	34.906	18.284	2.881	2.105
138.0	1.441	2.660	16.622	33.687	39.450	33.798	17.619	2.770	2.105
138.5	1.441	2.660	15.957	32.690	38.341	32.801	16.954	2.770	2.105

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CANDELA TABULATION - (Cont.)

139.0	1.551	2.660	15.181	31.693	37.233	31.693	16.290	2.660	2.216
139.5	1.551	2.549	14.406	30.695	36.125	30.806	15.625	2.660	2.216
140.0	1.551	2.549	13.741	29.698	35.017	29.698	14.849	2.660	2.216
140.5	1.551	2.549	13.076	28.590	33.909	28.701	14.184	2.549	2.216
141.0	1.551	2.438	12.522	27.703	32.801	27.703	13.519	2.549	2.216
141.5	1.551	2.438	11.857	26.706	31.693	26.817	12.854	2.549	2.327
142.0	1.551	2.438	11.303	25.820	30.695	25.820	12.189	2.549	2.327
142.5	1.551	2.327	10.749	24.822	29.587	24.822	11.525	2.438	2.327
143.0	1.551	2.327	10.195	23.936	28.590	23.825	10.971	2.438	2.327
143.5	1.662	2.327	9.641	22.938	27.593	22.938	10.306	2.438	2.327
144.0	1.662	2.327	9.087	22.052	26.484	22.052	9.752	2.327	2.327
144.5	1.662	2.327	8.533	21.165	25.487	21.055	9.087	2.327	2.438
145.0	1.662	2.216	8.089	20.168	24.490	20.168	8.533	2.327	2.438
145.5	1.662	2.216	7.535	19.282	23.492	19.282	7.979	2.327	2.438
146.0	1.662	2.216	7.092	18.506	22.495	18.395	7.424	2.327	2.438
146.5	1.662	2.216	6.649	17.619	21.498	17.509	6.981	2.327	2.438
147.0	1.662	2.216	6.206	16.733	20.611	16.622	6.538	2.216	2.438
147.5	1.662	2.216	5.762	15.846	19.614	15.846	6.095	2.216	2.549
148.0	1.773	2.216	5.430	14.960	18.727	14.960	5.762	2.216	2.549
148.5	1.773	2.216	5.097	14.073	17.730	14.184	5.430	2.216	2.549
149.0	1.773	2.216	4.876	13.076	16.844	13.298	5.097	2.216	2.549
149.5	1.773	2.216	4.543	12.300	15.957	12.522	4.876	2.216	2.549
150.0	1.773	2.216	4.322	11.414	15.071	11.746	4.654	2.327	2.549
150.5	1.773	2.216	4.211	10.638	14.184	10.971	4.433	2.216	2.660
151.0	1.773	2.216	3.989	9.862	13.298	10.195	4.211	2.216	2.660
151.5	1.884	2.216	3.878	9.198	12.522	9.530	4.100	2.327	2.660
152.0	1.884	2.327	3.768	8.422	11.635	8.754	3.878	2.327	2.660
152.5	1.884	2.327	3.657	7.868	10.860	8.089	3.768	2.327	2.660
153.0	1.884	2.327	3.546	7.314	9.973	7.424	3.657	2.327	2.660
153.5	1.884	2.327	3.435	6.760	9.198	6.870	3.546	2.327	2.660
154.0	1.884	2.327	3.324	6.206	8.422	6.427	3.435	2.327	2.770
154.5	1.995	2.327	3.214	5.762	7.757	5.873	3.324	2.327	2.770
155.0	1.995	2.327	3.103	5.319	7.092	5.430	3.214	2.327	2.770
155.5	1.995	2.438	3.103	4.987	6.538	5.097	3.214	2.327	2.770
156.0	1.995	2.438	2.992	4.654	5.984	4.765	3.103	2.438	2.770
156.5	2.105	2.438	2.992	4.322	5.541	4.433	2.992	2.438	2.770
157.0	2.105	2.438	2.881	4.100	5.097	4.211	2.992	2.438	2.770
157.5	2.105	2.438	2.881	3.989	4.654	3.989	2.881	2.438	2.770
158.0	2.105	2.438	2.770	3.768	4.433	3.768	2.881	2.438	2.881
158.5	2.105	2.549	2.770	3.657	4.100	3.657	2.770	2.438	2.881
159.0	2.216	2.549	2.660	3.435	3.878	3.435	2.770	2.549	2.881
159.5	2.216	2.549	2.660	3.324	3.657	3.324	2.660	2.549	2.881
160.0	2.216	2.549	2.660	3.214	3.546	3.214	2.660	2.549	2.881
160.5	2.216	2.549	2.549	3.103	3.324	3.103	2.660	2.549	2.881
161.0	2.216	2.549	2.549	2.992	3.214	2.992	2.549	2.549	2.881
161.5	2.327	2.549	2.549	2.992	3.103	2.992	2.549	2.549	2.881
162.0	2.327	2.660	2.549	2.881	2.992	2.881	2.549	2.549	2.881
162.5	2.327	2.660	2.549	2.770	2.881	2.770	2.549	2.660	2.881
163.0	2.327	2.660	2.549	2.660	2.770	2.770	2.549	2.660	2.992
163.5	2.327	2.660	2.549	2.660	2.660	2.660	2.549	2.660	2.992
164.0	2.438	2.660	2.549	2.549	2.660	2.549	2.549	2.660	2.992
164.5	2.438	2.660	2.549	2.549	2.549	2.549	2.549	2.660	2.992
165.0	2.438	2.770	2.549	2.549	2.549	2.549	2.549	2.660	2.992
165.5	2.438	2.770	2.549	2.549	2.438	2.549	2.549	2.770	2.992
166.0	2.549	2.770	2.660	2.549	2.438	2.438	2.660	2.770	2.992
166.5	2.549	2.770	2.660	2.549	2.438	2.438	2.660	2.770	2.992

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CANDELA TABULATION - (Cont.)

167.0	2.549	2.770	2.660	2.438	2.327	2.438	2.660	2.770	2.992
167.5	2.549	2.770	2.660	2.438	2.327	2.438	2.660	2.770	2.992
168.0	2.549	2.770	2.660	2.438	2.327	2.438	2.660	2.770	2.992
168.5	2.660	2.881	2.660	2.438	2.327	2.438	2.660	2.770	2.992
169.0	2.660	2.881	2.660	2.549	2.327	2.549	2.660	2.881	2.992
169.5	2.660	2.881	2.660	2.549	2.327	2.549	2.660	2.881	2.992
170.0	2.660	2.881	2.660	2.549	2.327	2.438	2.660	2.881	2.992
170.5	2.660	2.881	2.660	2.549	2.327	2.549	2.660	2.881	2.992
171.0	2.660	2.881	2.770	2.549	2.327	2.549	2.660	2.881	2.992
171.5	2.660	2.881	2.770	2.549	2.327	2.549	2.770	2.881	2.992
172.0	2.660	2.881	2.770	2.549	2.327	2.549	2.770	2.881	2.992
172.5	2.770	2.881	2.770	2.549	2.438	2.549	2.770	2.881	2.992
173.0	2.770	2.881	2.770	2.549	2.438	2.549	2.770	2.881	2.992
173.5	2.770	2.881	2.770	2.549	2.438	2.549	2.770	2.881	2.992
174.0	2.770	2.881	2.770	2.549	2.438	2.549	2.770	2.881	2.992
174.5	2.770	2.881	2.770	2.549	2.438	2.549	2.770	2.881	2.992
175.0	2.770	2.881	2.770	2.549	2.438	2.549	2.770	2.881	2.992
175.5	2.881	2.881	2.770	2.549	2.438	2.549	2.770	2.881	2.992
176.0	2.881	2.881	2.770	2.549	2.438	2.549	2.770	2.881	2.992
176.5	2.881	2.881	2.770	2.660	2.438	2.549	2.770	2.881	2.992
177.0	2.881	2.992	2.770	2.660	2.438	2.549	2.770	2.992	2.992
177.5	2.881	2.992	2.770	2.660	2.438	2.549	2.770	2.992	2.992
178.0	2.881	2.992	2.770	2.660	2.438	2.660	2.770	2.992	2.992
178.5	2.881	2.992	2.770	2.660	2.438	2.660	2.770	2.992	2.992
179.0	2.992	2.992	2.770	2.660	2.438	2.660	2.881	2.992	2.992
179.5	2.992	2.992	2.770	2.660	2.438	2.660	2.770	2.992	2.992
180.0	2.770	2.770	2.770	2.770	2.770	2.770	2.770	2.770	2.770

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_32W_5000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	518.75	N.A.	11.40
0-30	1089.7	N.A.	24.00
0-40	1766.78	N.A.	38.80
0-60	3110.13	N.A.	68.40
0-80	4008.44	N.A.	88.10
0-90	4222.03	N.A.	92.80
10-90	4086.85	N.A.	89.80
20-40	1248.02	N.A.	27.40
20-50	1946.16	N.A.	42.80
40-70	1871.72	N.A.	41.10
60-80	898.32	N.A.	19.70
70-80	369.95	N.A.	8.10
80-90	213.58	N.A.	4.70
90-110	209.39	N.A.	4.60
90-120	265.96	N.A.	5.80
90-130	299.83	N.A.	6.60
90-150	324.53	N.A.	7.10
90-180	327.57	N.A.	7.20
110-180	118.17	N.A.	2.60
0-180	4549.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.17
10-20	383.58
20-30	570.94
30-40	677.08
40-50	698.14
50-60	645.21
60-70	528.37
70-80	369.95
80-90	213.58
90-100	123.68
100-110	85.72
110-120	56.57
120-130	33.87
130-140	17.56
140-150	7.14
150-160	2.02
160-170	0.76
170-180	0.26

IES INDOOR REPORT
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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	100	96	91	102	97	93	89	92	88	85	87	84	81	82	79	77	75
2	96	87	80	73	92	84	78	72	80	74	69	75	71	66	71	67	64	61
3	87	76	67	61	84	74	66	60	70	63	58	66	60	56	63	58	54	51
4	80	67	58	51	77	65	57	50	62	55	49	59	52	47	56	50	46	44
5	73	60	51	44	70	58	50	43	55	48	42	53	46	41	50	44	40	38
6	67	54	45	38	65	52	44	38	50	42	37	48	41	36	45	40	35	33
7	62	49	40	34	60	48	39	33	45	38	33	43	37	32	41	36	31	29
8	58	44	36	30	56	43	35	30	42	34	29	40	33	28	38	32	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	24	49	37	29	24	35	28	24	34	28	23	33	27	23	21

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_32W_5000K_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	20.1	21.7	20.6	22.1	22.6	22.6	24.1	23.0	24.6	25.0
	3H	21.6	23.0	22.1	23.5	24.0	25.0	26.4	25.5	26.8	27.4
	4H	22.1	23.4	22.6	23.9	24.4	26.1	27.4	26.6	27.9	28.5
	6H	22.4	23.6	22.9	24.1	24.7	27.2	28.5	27.8	29.0	29.5
	8H	22.5	23.6	23.0	24.2	24.7	27.8	29.0	28.4	29.5	30.1
	12H	22.5	23.6	23.0	24.1	24.7	28.4	29.6	29.0	30.1	30.7

UGR Viewed Endwise

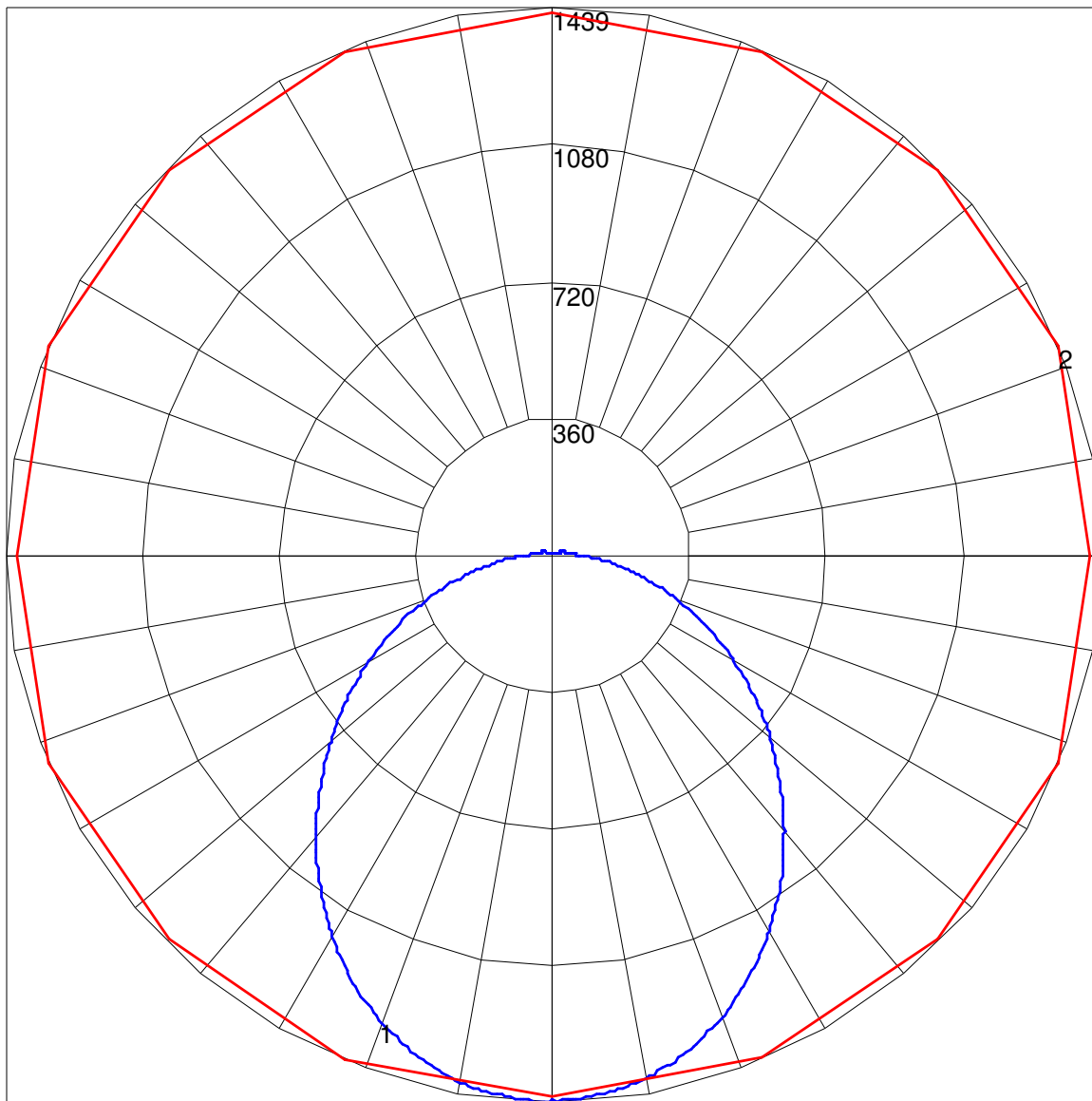
4H	2H	21.1	22.4	21.6	22.9	23.4	23.0	24.3	23.5	24.8	25.3
	3H	22.8	23.9	23.3	24.5	25.0	25.7	26.8	26.2	27.3	27.9
	4H	23.4	24.4	23.9	25.0	25.6	26.9	28.0	27.5	28.5	29.1
	6H	23.8	24.7	24.4	25.3	25.9	28.3	29.2	28.8	29.7	30.3
	8H	23.9	24.8	24.5	25.4	26.0	28.9	29.8	29.5	30.3	31.0
	12H	24.0	24.8	24.6	25.4	26.0	29.7	30.4	30.2	31.0	31.7

8H	4H	24.1	25.0	24.7	25.5	26.1	27.1	28.0	27.7	28.6	29.2
	6H	24.7	25.4	25.3	26.0	26.7	28.6	29.4	29.2	30.0	30.6
	8H	24.9	25.6	25.5	26.2	26.8	29.5	30.1	30.1	30.7	31.3
	12H	25.1	25.6	25.7	26.2	26.9	30.4	30.9	31.0	31.5	32.2

12H	4H	24.3	25.1	24.9	25.7	26.3	27.1	27.9	27.7	28.5	29.1
	6H	25.0	25.7	25.6	26.2	26.9	28.7	29.3	29.3	29.9	30.6
	8H	25.3	25.9	25.9	26.5	27.2	29.5	30.1	30.1	30.7	31.4

Maximum UGR = 32.2

POLAR GRAPH



Maximum Candela = 1439.466 Located At Horizontal Angle = 157.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)