

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RWG-4-L60-935-S-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 14794038.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 11 DEC 2023
[TEST DATE] 5/11/2023
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] RWG-4-L60-935-S-DIM-UNV
[LUMINAIRE] 48 INCH RECESSED LINEAR WALL WASH
[MORE] WITH SPECULAR REFL AND LENS OVER LEDS
[LAMP] LED
[BALLAST] 0-10V DIMMABLE LED DRIVER
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] INDOOR
[SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	60.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.40
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.81 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12577	10485	3630
55	13804	10409	3316
65	17399	10760	2970
75	11617	11205	2707
85	19732	10888	2549

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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	1334.928	1334.928	1334.928	1334.928	1334.928	1334.928	1334.928	1334.928	1334.928
0.5	1319.079	1356.872	1366.625	1370.282	1359.310	1341.023	1314.203	1289.821	1245.933
1.0	1355.653	1391.007	1393.445	1384.911	1359.310	1326.394	1288.601	1256.905	1210.822
1.5	1393.445	1427.580	1422.704	1400.760	1359.310	1312.984	1263.000	1223.988	1176.687
2.0	1433.676	1464.154	1450.743	1415.389	1360.529	1299.573	1238.618	1191.682	1143.161
2.5	1472.687	1499.508	1478.783	1430.018	1361.748	1286.163	1213.626	1159.376	1110.245
3.0	1512.918	1538.519	1508.042	1445.867	1361.748	1272.753	1189.122	1128.166	1077.573
3.5	1554.368	1576.312	1536.081	1460.496	1361.748	1259.343	1164.374	1097.688	1046.730
4.0	1595.818	1615.323	1566.559	1476.345	1361.748	1244.713	1140.235	1066.845	1015.277
4.5	1638.487	1654.335	1595.818	1490.974	1360.529	1230.084	1117.072	1037.464	984.799
5.0	1682.375	1694.566	1626.295	1505.603	1360.529	1216.308	1093.909	1008.815	956.028
5.5	1725.044	1736.016	1656.773	1520.233	1358.091	1202.776	1070.746	980.410	926.403
6.0	1768.932	1777.465	1687.251	1534.862	1356.872	1188.634	1047.705	952.614	896.535
6.5	1812.820	1820.134	1716.510	1549.491	1355.653	1174.371	1024.664	924.453	867.642
7.0	1857.927	1862.803	1748.207	1562.902	1354.433	1160.473	1002.842	896.657	842.528
7.5	1904.253	1905.472	1778.684	1577.531	1353.214	1146.575	980.044	871.056	821.316
8.0	1949.360	1946.922	1807.943	1592.160	1351.995	1132.555	958.100	847.405	798.518
8.5	1992.029	1989.591	1839.640	1605.571	1348.338	1118.535	936.278	827.046	777.915
9.0	2035.917	2032.260	1868.899	1620.200	1345.900	1103.906	913.603	806.321	758.166
9.5	2084.682	2074.929	1900.596	1633.610	1342.242	1089.886	892.756	787.181	741.220
10.0	2128.570	2116.378	1931.073	1647.020	1339.804	1075.379	871.056	769.991	722.324
10.5	2174.896	2159.047	1961.551	1660.431	1336.147	1061.237	852.403	753.167	703.428
11.0	2218.784	2199.278	1990.810	1672.622	1333.709	1047.583	834.604	735.612	685.141
11.5	2262.672	2239.509	2020.069	1684.813	1330.051	1032.832	817.415	718.057	667.220
12.0	2305.341	2279.740	2049.327	1697.004	1326.394	1019.421	801.322	700.868	649.787
12.5	2350.448	2319.970	2079.805	1710.414	1322.737	1004.426	784.986	683.922	632.841
13.0	2393.117	2360.201	2109.064	1722.605	1319.079	990.041	769.747	667.830	616.017
13.5	2434.567	2397.993	2139.542	1734.796	1314.203	975.899	758.532	651.981	600.169
14.0	2474.797	2437.005	2166.362	1746.988	1309.326	961.148	744.268	635.767	583.589
14.5	2516.247	2476.017	2195.621	1756.740	1304.450	947.494	730.126	620.284	568.350
15.0	2557.697	2512.590	2222.441	1768.932	1299.573	933.718	715.863	605.045	553.111
15.5	2600.366	2550.382	2250.481	1779.904	1295.916	919.576	702.209	590.172	538.238
16.0	2636.939	2585.737	2276.082	1790.876	1291.040	905.800	688.554	575.787	524.584
16.5	2673.513	2621.091	2301.684	1801.848	1284.944	890.683	675.144	561.767	509.589
17.0	2707.648	2655.226	2328.504	1812.820	1280.068	876.420	662.100	547.991	495.813
17.5	2740.564	2688.142	2354.105	1822.572	1273.972	862.400	649.177	534.581	482.525
18.0	2772.261	2718.620	2380.926	1834.764	1267.877	848.502	636.864	520.805	468.627
18.5	2801.519	2747.879	2405.308	1844.517	1263.000	834.482	624.185	508.004	456.314
19.0	2830.778	2775.918	2427.252	1854.269	1256.905	821.560	611.385	495.081	442.660
19.5	2860.037	2801.519	2450.415	1862.803	1249.590	809.856	599.437	482.159	430.103
20.0	2886.857	2825.902	2472.359	1871.337	1244.713	797.909	586.759	469.724	418.034
20.5	2916.116	2851.503	2494.303	1882.309	1238.618	786.327	575.299	457.167	405.233
21.0	2939.279	2874.666	2515.028	1889.624	1231.303	775.233	563.474	445.585	393.773
21.5	2963.661	2896.610	2534.534	1899.377	1225.208	765.724	551.648	433.882	381.704
22.0	2984.386	2918.554	2552.821	1906.691	1217.771	755.362	540.554	422.178	370.366
22.5	3005.111	2939.279	2568.669	1912.787	1209.969	745.243	528.973	410.597	359.150
23.0	3024.617	2960.004	2584.518	1921.321	1203.751	734.271	518.001	399.503	347.203
23.5	3047.780	2978.291	2595.490	1927.416	1196.193	724.031	507.029	388.531	337.694
24.0	3066.067	2995.358	2607.681	1933.512	1189.610	712.693	495.935	377.803	326.478
24.5	3083.134	3009.988	2618.653	1939.607	1181.441	701.843	485.572	367.197	316.238
25.0	3097.764	3023.398	2628.406	1945.703	1173.883	690.993	474.478	357.078	306.729
25.5	3107.517	3039.246	2639.378	1950.579	1165.471	680.386	464.360	347.081	296.488
26.0	3117.269	3050.218	2650.350	1954.237	1156.694	670.390	454.363	337.328	287.589
26.5	3120.927	3058.752	2658.883	1957.894	1148.404	659.662	444.244	327.697	277.836

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27.0	3120.927	3064.848	2667.417	1961.551	1139.870	649.909	434.735	318.188	268.692
27.5	3118.489	3066.067	2672.294	1963.989	1130.239	639.668	424.495	309.289	260.402
28.0	3116.050	3064.848	2678.389	1965.209	1122.802	629.549	414.986	300.023	251.259
28.5	3112.393	3061.190	2683.266	1967.647	1112.805	620.040	405.842	291.612	243.457
29.0	3106.297	3055.095	2688.142	1970.085	1104.394	609.800	396.333	283.200	235.167
29.5	3100.202	3047.780	2691.799	1970.085	1094.885	600.413	387.678	275.032	227.121
30.0	3089.230	3039.246	2693.018	1968.866	1084.644	590.538	378.534	267.107	219.928
30.5	3079.477	3030.713	2694.238	1968.866	1075.379	580.907	370.122	258.939	211.760
31.0	3072.162	3022.179	2693.018	1967.647	1065.382	571.642	361.467	251.625	205.055
31.5	3062.409	3011.207	2691.799	1966.428	1056.848	562.254	352.933	244.188	197.862
32.0	3053.876	2999.016	2688.142	1965.209	1047.461	552.867	345.009	236.873	191.035
32.5	3041.685	2986.824	2683.266	1961.551	1037.221	543.236	336.353	229.925	184.574
33.0	3030.713	2970.976	2674.732	1960.332	1028.077	533.849	328.551	222.976	177.747
33.5	3020.960	2958.785	2668.636	1956.675	1017.471	524.706	320.870	216.392	171.895
34.0	3008.769	2945.375	2660.102	1954.237	1007.230	515.441	313.068	210.053	165.555
34.5	2996.577	2930.745	2646.692	1949.360	998.209	506.419	306.241	203.592	159.460
35.0	2983.167	2916.116	2633.282	1944.484	987.237	497.154	298.439	197.374	153.852
35.5	2969.757	2900.268	2617.434	1939.607	977.728	487.767	291.124	191.401	148.000
36.0	2956.347	2884.419	2601.585	1933.512	966.756	478.989	283.931	185.305	142.758
36.5	2946.594	2867.352	2585.737	1927.416	956.759	470.090	276.738	179.697	137.516
37.0	2931.964	2849.065	2568.669	1922.540	947.372	461.434	270.033	174.089	132.274
37.5	2917.335	2830.778	2551.601	1914.006	935.303	452.778	263.206	168.725	127.519
38.0	2901.487	2811.272	2533.315	1905.472	925.184	443.635	256.379	163.361	122.277
38.5	2883.200	2792.986	2513.809	1896.938	913.968	435.101	249.918	158.119	117.522
39.0	2869.790	2774.699	2494.303	1888.405	902.631	426.567	243.335	153.120	113.012
39.5	2855.160	2755.193	2474.797	1878.652	892.756	418.399	237.117	148.122	108.501
40.0	2839.312	2735.687	2452.853	1868.899	881.296	410.231	231.022	143.489	104.234
40.5	2823.463	2713.743	2432.129	1859.146	871.056	401.819	224.926	138.735	99.845
41.0	2807.615	2694.238	2408.965	1849.393	860.327	393.773	219.074	134.346	95.944
41.5	2791.767	2675.951	2389.460	1839.640	848.746	385.727	213.345	130.201	92.165
42.0	2775.918	2656.445	2368.735	1829.887	838.505	378.047	208.224	125.934	88.508
42.5	2761.289	2639.378	2348.010	1820.134	827.533	370.488	203.104	122.033	85.216
43.0	2745.440	2622.310	2327.285	1809.162	816.927	362.930	197.984	118.376	81.681
43.5	2732.030	2604.023	2305.341	1796.971	806.808	355.615	192.985	114.597	78.511
44.0	2717.401	2586.956	2283.397	1785.999	796.202	348.422	188.109	111.183	75.341
44.5	2705.210	2569.888	2262.672	1775.027	786.449	341.229	183.598	107.770	72.415
45.0	2689.361	2552.821	2241.947	1764.055	776.209	334.524	179.331	104.600	69.733
45.5	2675.951	2535.753	2220.003	1751.864	766.821	327.453	174.699	101.430	66.929
46.0	2663.760	2519.905	2198.059	1738.454	757.678	320.870	170.798	98.260	64.247
46.5	2649.130	2504.056	2176.115	1726.263	748.291	314.287	166.409	95.335	61.809
47.0	2635.720	2488.208	2154.171	1712.852	738.538	307.704	162.386	92.409	59.249
47.5	2623.529	2473.578	2133.446	1700.661	728.176	301.486	158.606	89.605	56.933
48.0	2610.119	2455.292	2109.064	1686.032	717.569	295.147	154.705	86.923	54.616
48.5	2594.270	2438.224	2087.120	1671.403	707.816	288.930	150.926	84.119	52.422
49.0	2579.641	2419.937	2063.957	1656.773	697.088	282.834	147.147	81.559	50.349
49.5	2563.793	2402.870	2040.794	1642.144	686.726	276.738	143.489	79.242	48.399
50.0	2549.163	2385.802	2021.288	1626.295	676.485	271.009	140.198	76.804	46.570
50.5	2533.315	2367.516	1999.344	1609.228	665.757	265.157	136.784	74.610	44.741
51.0	2516.247	2349.229	1976.181	1592.160	655.638	259.549	133.493	72.293	42.913
51.5	2500.399	2333.380	1953.017	1572.655	645.154	253.941	130.201	70.099	41.328
52.0	2485.769	2315.094	1932.293	1553.149	635.279	248.333	126.910	68.026	39.743
52.5	2471.140	2298.026	1911.568	1533.643	625.770	243.091	123.984	66.076	38.280
53.0	2456.511	2278.520	1889.624	1514.137	615.164	237.849	120.936	64.247	36.817
53.5	2441.881	2261.453	1867.680	1493.412	605.289	232.728	117.888	62.419	35.476
54.0	2424.814	2245.604	1846.955	1472.687	594.927	227.364	115.084	60.590	34.135
54.5	2410.185	2227.318	1826.230	1451.962	584.686	222.366	112.036	58.883	32.916

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55.0	2394.336	2211.469	1805.505	1431.238	575.177	217.611	109.232	57.176	31.697
55.5	2377.268	2193.183	1783.561	1409.294	564.571	212.857	106.428	55.592	30.478
56.0	2362.639	2174.896	1762.836	1386.130	555.062	208.102	103.625	54.007	29.503
56.5	2345.572	2155.390	1740.892	1364.186	545.065	203.226	101.064	52.544	28.405
57.0	2328.504	2137.103	1717.729	1342.242	534.581	198.593	98.260	51.081	27.430
57.5	2313.875	2117.598	1698.223	1320.298	525.315	194.083	95.700	49.740	26.455
58.0	2295.588	2098.092	1676.279	1297.135	514.831	189.694	93.262	48.399	25.601
58.5	2280.959	2077.367	1655.554	1273.972	504.956	185.427	90.824	47.180	24.748
59.0	2266.329	2059.080	1634.829	1252.028	495.081	181.282	88.629	45.839	23.895
59.5	2251.700	2039.574	1611.666	1228.865	484.841	177.137	86.435	44.741	23.041
60.0	2244.385	2021.288	1590.941	1205.702	475.819	173.114	84.119	43.522	22.310
60.5	2239.509	2005.439	1570.216	1183.514	465.579	169.335	82.046	42.547	21.578
61.0	2238.290	1988.372	1548.272	1161.448	456.070	165.434	79.974	41.450	20.969
61.5	2241.947	1972.523	1527.547	1138.529	446.561	161.532	78.023	40.475	20.237
62.0	2243.166	1960.332	1506.822	1115.853	436.320	157.753	75.951	39.377	19.628
62.5	2248.043	1951.798	1486.098	1092.690	427.055	154.218	74.122	38.402	19.018
63.0	2252.919	1946.922	1464.154	1070.380	417.424	150.560	72.415	37.549	18.409
63.5	2257.795	1942.045	1442.210	1046.364	407.793	147.269	70.587	36.573	17.921
64.0	2256.576	1938.388	1420.266	1023.201	398.406	143.733	68.880	35.720	17.311
64.5	2245.604	1937.169	1397.102	999.550	388.775	140.198	67.051	34.745	16.824
65.0	2223.660	1933.512	1375.158	976.631	379.631	136.784	65.222	33.891	16.336
65.5	2191.963	1927.416	1351.995	954.321	370.488	133.371	63.638	33.038	15.848
66.0	2159.047	1910.349	1331.270	931.889	361.223	130.079	62.053	32.185	15.361
66.5	2124.912	1882.309	1310.545	909.458	352.080	126.788	60.346	31.331	14.873
67.0	2087.120	1849.393	1289.821	887.026	342.449	123.496	58.761	30.600	14.386
67.5	2054.204	1814.039	1269.096	865.082	333.305	120.326	57.176	29.746	14.020
68.0	2009.097	1781.123	1252.028	843.016	324.528	117.035	55.592	28.893	13.532
68.5	1953.017	1745.768	1236.180	821.316	315.872	113.987	54.007	28.161	13.044
69.0	1892.062	1709.195	1221.550	799.981	307.704	110.817	52.544	27.430	12.679
69.5	1807.943	1662.869	1210.091	780.841	299.170	107.648	51.081	26.699	12.313
70.0	1714.072	1604.351	1197.534	758.897	290.758	104.600	49.618	25.845	11.825
70.5	1615.323	1540.958	1185.586	738.416	282.590	101.552	48.155	25.114	11.460
71.0	1505.603	1466.592	1166.690	718.057	274.178	98.504	46.814	24.382	11.094
71.5	1409.294	1381.254	1137.675	696.357	266.254	95.578	45.473	23.651	10.606
72.0	1304.450	1297.135	1104.759	674.657	258.330	92.653	44.132	22.919	10.241
72.5	1208.140	1207.652	1069.283	652.834	250.284	89.727	42.669	22.066	9.875
73.0	1131.092	1118.413	1034.538	631.134	242.603	86.801	41.206	21.334	9.509
73.5	1056.726	1036.611	1001.013	610.166	234.923	83.875	39.865	20.603	9.143
74.0	1000.403	959.319	963.464	589.197	227.364	81.071	38.524	19.872	8.778
74.5	952.127	898.120	923.112	568.228	219.684	78.145	37.183	19.140	8.412
75.0	909.214	845.454	877.029	547.016	211.882	75.463	35.842	18.531	8.046
75.5	878.370	801.079	825.583	525.925	204.323	72.659	34.501	17.677	7.680
76.0	848.380	765.724	772.307	504.225	196.887	69.977	33.160	17.068	7.193
76.5	823.998	736.953	715.863	482.768	189.694	67.295	31.819	16.336	6.705
77.0	801.688	710.133	657.955	461.068	182.623	64.613	30.600	15.605	6.339
77.5	776.696	685.141	602.363	439.124	175.552	61.931	29.259	14.873	6.096
78.0	763.530	661.490	552.745	417.912	168.847	59.371	27.918	14.142	5.852
78.5	761.092	641.375	510.930	397.674	162.020	56.811	26.699	13.410	5.486
79.0	761.945	632.963	474.722	377.681	155.559	54.250	25.358	12.801	5.242
79.5	766.943	634.426	444.732	356.468	148.854	51.690	24.017	12.191	4.998
80.0	772.186	638.327	418.643	334.037	142.148	49.130	22.797	11.582	4.633
80.5	776.940	640.156	395.114	310.752	135.200	46.570	21.456	10.850	4.389
81.0	780.232	640.765	375.365	287.710	128.129	44.010	20.237	10.241	4.145
81.5	776.696	640.887	362.564	266.254	120.936	41.450	18.896	9.631	3.901
82.0	756.337	632.963	357.078	244.066	113.134	38.890	17.677	9.021	3.657
82.5	717.813	609.312	354.518	221.269	105.331	36.208	16.458	8.412	3.414

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RWG-4-L60-935-S-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	673.681	571.764	351.348	198.228	97.529	33.647	15.239	7.802	3.170
83.5	634.670	535.068	345.496	176.893	89.849	31.087	14.020	7.193	3.048
84.0	593.951	499.958	332.086	158.363	82.168	28.527	12.801	6.583	2.804
84.5	557.744	465.579	311.605	142.636	74.610	25.967	11.582	5.974	2.682
85.0	520.073	431.688	286.979	129.348	67.173	23.407	10.362	5.486	2.438
85.5	486.304	400.113	261.378	117.035	59.736	20.969	9.143	4.876	2.316
86.0	446.805	363.905	236.752	104.966	52.422	18.409	7.924	4.267	2.072
86.5	392.188	318.676	210.419	92.896	45.229	15.848	6.827	3.779	1.951
87.0	339.279	268.814	182.257	79.364	37.792	13.288	5.608	3.170	1.707
87.5	279.420	217.002	151.048	64.613	30.478	10.728	4.511	2.682	1.585
88.0	216.880	161.898	115.084	49.374	23.163	8.290	3.535	2.194	1.463
88.5	155.559	102.162	76.438	33.404	15.848	5.852	2.438	1.707	1.341
89.0	77.657	38.890	37.549	18.652	8.778	3.535	1.707	1.341	1.097
89.5	21.213	6.096	11.338	8.900	4.755	1.951	1.219	1.097	1.097
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RWG-4-L60-935-S-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	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
117.0	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
118.0	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
119.0	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
120.0	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
121.0	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
122.0	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
123.0	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
124.0	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
125.0	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
126.0	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
127.0	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
128.0	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
129.0	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
130.0	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
131.0	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
132.0	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
133.0	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
134.0	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
135.0	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
136.0	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
137.0	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
138.0	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

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	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
140.0	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
141.0	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
142.0	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
143.0	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
144.0	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
145.0	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
146.0	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
147.0	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
148.0	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
149.0	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
150.0	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
151.0	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
152.0	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
153.0	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
154.0	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
155.0	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
156.0	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
157.0	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
158.0	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
159.0	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
160.0	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
161.0	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
162.0	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
163.0	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
164.0	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
165.0	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
166.0	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

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	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
168.0	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
169.0	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
170.0	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
171.0	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
172.0	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
173.0	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
174.0	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
175.0	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
176.0	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
177.0	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
178.0	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
179.0	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
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RWG-4-L60-935-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	542.79	N.A.	10.50
0-30	1232.74	N.A.	23.90
0-40	2094.58	N.A.	40.60
0-60	3847.8	N.A.	74.60
0-80	5005.41	N.A.	97.00
0-90	5159.73	N.A.	100.00
10-90	5029.18	N.A.	97.50
20-40	1551.78	N.A.	30.10
20-50	2453.28	N.A.	47.50
40-70	2488.43	N.A.	48.20
60-80	1157.61	N.A.	22.40
70-80	422.41	N.A.	8.20
80-90	154.31	N.A.	3.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5159.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.54
10-20	412.25
20-30	689.95
30-40	861.83
40-50	901.50
50-60	851.73
60-70	735.20
70-80	422.41
80-90	154.31
90-100	0.00
100-110	0.00
110-120	0.00
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
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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	50	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

IES INDOOR REPORT
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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

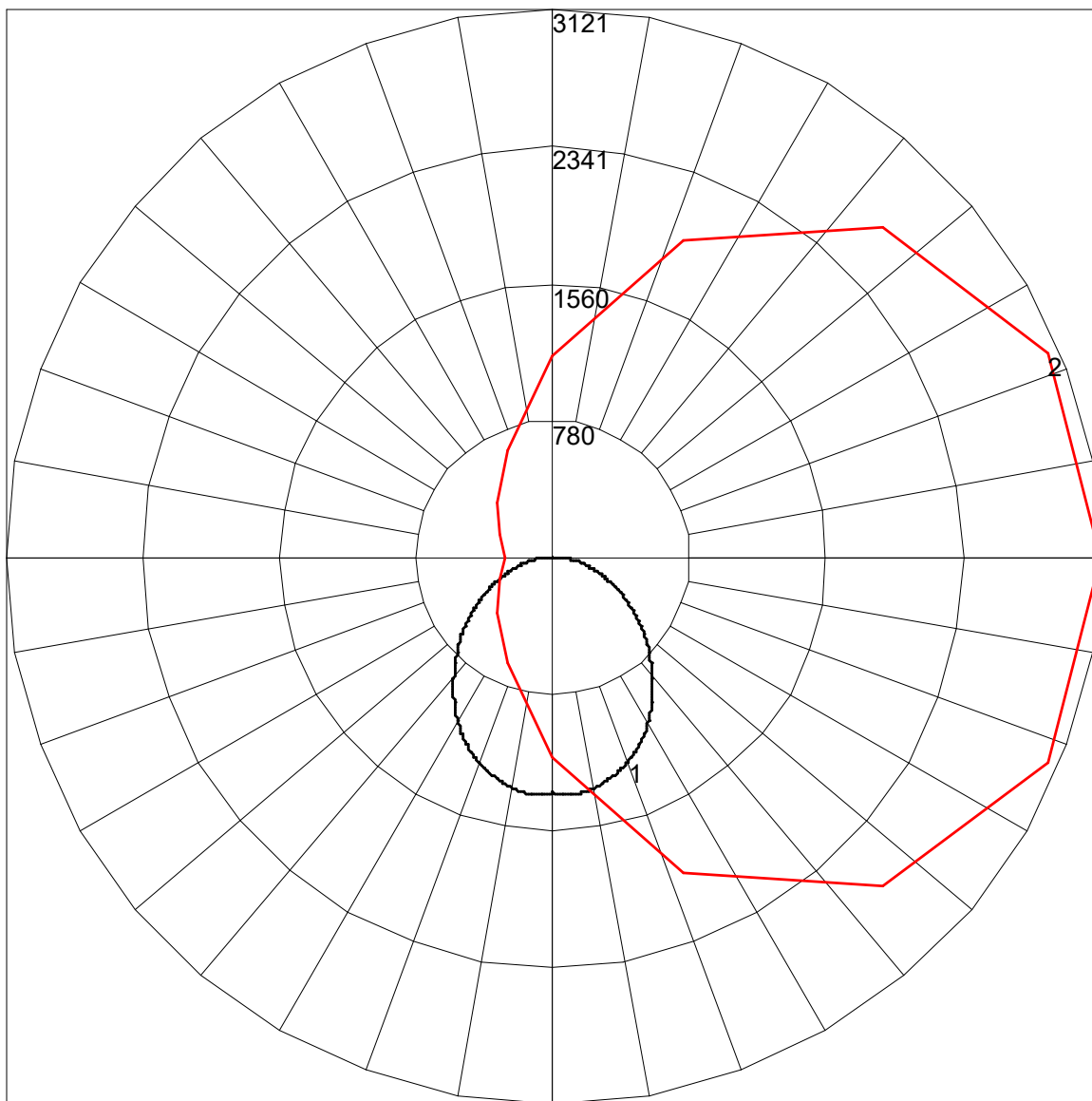
X=2H	Y=2H	24.3	26.0	24.7	26.3	26.6	17.8	19.5	18.2	19.9	20.2
	3H	27.3	28.8	27.7	29.1	29.5	19.1	20.7	19.5	21.0	21.4
	4H	27.8	29.3	28.2	29.6	30.0	19.6	21.0	20.0	21.4	21.8
	6H	28.3	29.7	28.8	30.1	30.5	19.9	21.3	20.3	21.7	22.0
	8H	28.8	30.1	29.2	30.5	30.8	20.0	21.3	20.5	21.7	22.1
	12H	29.1	30.4	29.6	30.8	31.2	20.1	21.4	20.6	21.8	22.2

UGR Viewed Endwise

4H	2H	24.7	26.2	25.1	26.6	26.9	19.4	20.8	19.8	21.2	21.5
	3H	27.9	29.2	28.3	29.6	30.0	21.1	22.3	21.5	22.7	23.1
	4H	28.6	29.7	29.0	30.1	30.5	21.7	22.8	22.1	23.2	23.7
	6H	29.3	30.3	29.7	30.7	31.2	22.1	23.1	22.6	23.6	24.0
	8H	29.8	30.7	30.3	31.2	31.6	22.3	23.2	22.7	23.6	24.1
	12H	30.3	31.1	30.8	31.6	32.1	22.4	23.2	22.8	23.7	24.1
8H	4H	28.8	29.7	29.2	30.1	30.6	22.6	23.5	23.1	24.0	24.4
	6H	29.6	30.4	30.1	30.9	31.3	23.2	24.0	23.7	24.4	24.9
	8H	30.3	31.0	30.8	31.5	32.0	23.4	24.1	23.9	24.6	25.1
	12H	31.0	31.6	31.5	32.1	32.6	23.5	24.1	24.0	24.6	25.2
12H	4H	28.8	29.6	29.3	30.1	30.5	22.8	23.6	23.2	24.1	24.5
	6H	29.7	30.3	30.2	30.8	31.3	23.4	24.1	23.9	24.6	25.1
	8H	30.4	31.0	30.9	31.5	32.0	23.7	24.3	24.2	24.8	25.3

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 3120.927 Located At Horizontal Angle = 0, Vertical Angle = 26.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (26.5) (Through Max. Cd.)