

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RWG-2-L45-850-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] 8 DEC 2023
[TEST DATE] 5/11/2023
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] RWG-2-L45-850-S-DIM-UNV
[LUMINAIRE] 24 INCH RECESSED LINEAR WALL WASH
[MORE] WITH SPECULAR REFL AND LENS OVER LED
[LAMP] LED
[LAMPCAT] 22 INCH HLM LED MODULE
[BALLAST] 0-10V DIMMABLE LED DRIVER
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4690
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	46.6
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)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22863	19060	6599
55	25094	18923	6028
65	31630	19560	5400
75	21118	20370	4921
85	35871	19794	4633

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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	1213.360	1213.360	1213.360	1213.360	1213.360	1213.360	1213.360	1213.360	1213.360
0.5	1198.954	1233.305	1242.170	1245.494	1235.521	1218.900	1194.522	1172.360	1132.469
1.0	1232.197	1264.332	1266.548	1258.791	1235.521	1205.603	1171.252	1142.442	1100.556
1.5	1266.548	1297.575	1293.142	1273.197	1235.521	1193.414	1147.982	1112.523	1069.529
2.0	1303.115	1330.817	1318.628	1286.494	1236.630	1181.225	1125.820	1083.159	1039.057
2.5	1338.574	1362.952	1344.114	1299.791	1237.738	1169.036	1103.105	1053.795	1009.138
3.0	1375.141	1398.411	1370.709	1314.196	1237.738	1156.847	1080.832	1025.427	979.442
3.5	1412.816	1432.762	1396.195	1327.493	1237.738	1144.658	1058.338	997.725	951.407
4.0	1450.491	1468.221	1423.897	1341.898	1237.738	1131.361	1036.398	969.690	922.818
4.5	1489.274	1503.679	1450.491	1355.195	1236.630	1118.064	1015.344	942.985	895.116
5.0	1529.166	1540.246	1478.193	1368.492	1236.630	1105.542	994.290	916.945	868.965
5.5	1567.949	1577.922	1505.896	1381.789	1234.413	1093.243	973.236	891.127	842.038
6.0	1607.840	1615.597	1533.598	1395.087	1233.305	1080.389	952.293	865.862	814.890
6.5	1647.731	1654.380	1560.192	1408.384	1232.197	1067.424	931.350	840.265	788.628
7.0	1688.731	1693.163	1589.002	1420.573	1231.089	1054.792	911.516	815.001	765.802
7.5	1730.838	1731.946	1616.705	1433.870	1229.981	1042.160	890.794	791.731	746.521
8.0	1771.838	1769.621	1643.299	1447.167	1228.873	1029.417	870.849	770.234	725.800
8.5	1810.621	1808.405	1672.109	1459.356	1225.549	1016.673	851.014	751.729	707.073
9.0	1850.512	1847.188	1698.703	1472.653	1223.332	1003.376	830.403	732.891	689.122
9.5	1894.836	1885.971	1727.514	1484.842	1220.008	990.633	811.455	715.494	673.719
10.0	1934.727	1923.646	1755.216	1497.031	1217.792	977.447	791.731	699.870	656.544
10.5	1976.834	1962.429	1782.918	1509.220	1214.468	964.593	774.777	684.579	639.369
11.0	2016.726	1998.996	1809.513	1520.301	1212.252	952.183	758.599	668.622	622.747
11.5	2056.617	2035.563	1836.107	1531.382	1208.927	938.775	742.975	652.666	606.458
12.0	2095.400	2072.130	1862.701	1542.463	1205.603	926.586	728.348	637.042	590.613
12.5	2136.399	2108.697	1890.403	1554.652	1202.279	912.956	713.500	621.639	575.210
13.0	2175.183	2145.264	1916.997	1565.733	1198.954	899.881	699.649	607.012	559.918
13.5	2212.858	2179.615	1944.700	1576.813	1194.522	887.027	689.454	592.607	545.513
14.0	2249.425	2215.074	1969.078	1587.894	1190.090	873.619	676.490	577.869	530.443
14.5	2287.100	2250.533	1995.672	1596.759	1185.657	861.208	663.636	563.797	516.592
15.0	2324.775	2283.776	2020.050	1607.840	1181.225	848.687	650.671	549.946	502.741
15.5	2363.558	2318.126	2045.536	1617.813	1177.901	835.833	638.260	536.427	489.222
16.0	2396.801	2350.261	2068.806	1627.786	1173.468	823.312	625.850	523.351	476.812
16.5	2430.044	2382.396	2092.076	1637.758	1167.928	809.571	613.661	510.608	463.182
17.0	2461.070	2413.422	2116.454	1647.731	1163.496	796.607	601.804	498.087	450.661
17.5	2490.989	2443.341	2139.724	1656.596	1157.955	783.864	590.058	485.898	438.582
18.0	2519.799	2471.043	2164.102	1667.677	1152.415	771.231	578.867	473.376	425.950
18.5	2546.393	2497.637	2186.264	1676.542	1147.982	758.488	567.343	461.742	414.758
19.0	2572.987	2523.123	2206.209	1685.406	1142.442	746.743	555.708	449.996	402.348
19.5	2599.581	2546.393	2227.263	1693.163	1135.793	736.105	544.848	438.250	390.935
20.0	2623.959	2568.555	2247.209	1700.920	1131.361	725.246	533.324	426.947	379.964
20.5	2650.554	2591.825	2267.154	1710.892	1125.820	714.719	522.908	415.534	368.329
21.0	2671.607	2612.879	2285.992	1717.541	1119.172	704.635	512.160	405.007	357.913
21.5	2693.769	2632.824	2303.721	1726.406	1113.631	695.992	501.411	394.370	346.943
22.0	2712.607	2652.770	2320.343	1733.054	1106.872	686.573	491.328	383.732	336.638
22.5	2731.444	2671.607	2334.748	1738.595	1099.780	677.376	480.801	373.205	326.444
23.0	2749.174	2690.445	2349.153	1746.351	1094.129	667.403	470.828	363.121	315.584
23.5	2770.227	2707.066	2359.126	1751.892	1087.259	658.095	460.855	353.149	306.941
24.0	2786.849	2722.580	2370.207	1757.432	1081.275	647.790	450.771	343.397	296.747
24.5	2802.362	2735.877	2380.179	1762.973	1073.851	637.928	441.353	333.757	287.439
25.0	2815.659	2748.066	2389.044	1768.513	1066.981	628.066	431.269	324.560	278.796
25.5	2824.524	2762.471	2399.017	1772.946	1059.335	618.426	422.072	315.474	269.488
26.0	2833.389	2772.444	2408.990	1776.270	1051.357	609.339	412.986	306.609	261.399
26.5	2836.713	2780.200	2416.746	1779.594	1043.822	599.588	403.788	297.855	252.534

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27.0	2836.713	2785.741	2424.503	1782.918	1036.065	590.723	395.145	289.212	244.223
27.5	2834.497	2786.849	2428.935	1785.135	1027.311	581.415	385.837	281.123	236.688
28.0	2832.281	2785.741	2434.476	1786.243	1020.552	572.218	377.194	272.701	228.378
28.5	2828.956	2782.416	2438.908	1788.459	1011.465	563.575	368.883	265.055	221.286
29.0	2823.416	2776.876	2443.341	1790.675	1003.820	554.267	360.240	257.410	213.751
29.5	2817.875	2770.227	2446.665	1790.675	995.177	545.735	352.373	249.985	206.437
30.0	2807.903	2762.471	2447.773	1789.567	985.869	536.759	344.062	242.783	199.900
30.5	2799.038	2754.714	2448.881	1789.567	977.447	528.005	336.416	235.359	192.475
31.0	2792.389	2746.958	2447.773	1788.459	968.361	519.584	328.549	228.710	186.381
31.5	2783.525	2736.985	2446.665	1787.351	960.604	511.052	320.792	221.951	179.843
32.0	2775.768	2725.904	2443.341	1786.243	952.072	502.519	313.590	215.302	173.638
32.5	2764.687	2714.823	2438.908	1782.918	942.764	493.765	305.722	208.986	167.765
33.0	2754.714	2700.418	2431.152	1781.810	934.453	485.233	298.631	202.670	161.560
33.5	2745.849	2689.337	2425.611	1778.486	924.813	476.922	291.650	196.686	156.241
34.0	2734.769	2677.148	2417.855	1776.270	915.505	468.501	284.558	190.924	150.479
34.5	2723.688	2663.851	2405.666	1771.838	907.305	460.301	278.352	185.051	144.938
35.0	2711.499	2650.554	2393.477	1767.405	897.332	451.880	271.261	179.400	139.841
35.5	2699.310	2636.148	2379.071	1762.973	888.689	443.347	264.612	173.970	134.522
36.0	2687.121	2621.743	2364.666	1757.432	878.716	435.369	258.074	168.430	129.757
36.5	2678.256	2606.230	2350.261	1751.892	869.630	427.280	251.537	163.333	124.993
37.0	2664.959	2589.609	2334.748	1747.460	861.098	419.412	245.442	158.235	120.228
37.5	2651.662	2572.987	2319.234	1739.703	850.127	411.545	239.237	153.360	115.906
38.0	2637.257	2555.258	2302.613	1731.946	840.930	403.234	233.032	148.484	111.142
38.5	2620.635	2538.636	2284.884	1724.190	830.736	395.478	227.159	143.719	106.820
39.0	2608.446	2522.015	2267.154	1716.433	820.431	387.721	221.175	139.176	102.720
39.5	2595.149	2504.286	2249.425	1707.568	811.455	380.297	215.524	134.633	98.620
40.0	2580.744	2486.556	2229.479	1698.703	801.039	372.873	209.983	130.422	94.742
40.5	2566.339	2466.611	2210.642	1689.839	791.731	365.227	204.443	126.101	90.753
41.0	2551.934	2448.881	2189.588	1680.974	781.980	357.913	199.124	122.112	87.207
41.5	2537.528	2432.260	2171.858	1672.109	771.453	350.600	193.916	118.344	83.772
42.0	2523.123	2414.530	2153.021	1663.245	762.145	343.619	189.262	114.466	80.447
42.5	2509.826	2399.017	2134.183	1654.380	752.172	336.749	184.608	110.920	77.456
43.0	2495.421	2383.504	2115.346	1644.407	742.532	329.879	179.954	107.596	74.242
43.5	2483.232	2366.882	2095.400	1633.326	733.335	323.230	175.411	104.161	71.361
44.0	2469.935	2351.369	2075.454	1623.353	723.694	316.692	170.978	101.058	68.480
44.5	2458.854	2335.856	2056.617	1613.380	714.830	310.155	166.879	97.955	65.821
45.0	2444.449	2320.343	2037.779	1603.408	705.522	304.060	163.000	95.074	63.383
45.5	2432.260	2304.829	2017.834	1592.327	696.989	297.633	158.789	92.193	60.834
46.0	2421.179	2290.424	1997.888	1580.138	688.679	291.650	155.244	89.312	58.396
46.5	2407.882	2276.019	1977.942	1569.057	680.146	285.666	151.254	86.653	56.180
47.0	2395.693	2261.614	1957.997	1556.868	671.282	279.682	147.598	83.993	53.853
47.5	2384.612	2248.317	1939.159	1545.787	661.863	274.031	144.163	81.445	51.748
48.0	2372.423	2231.695	1916.997	1532.490	652.222	268.269	140.617	79.007	49.642
48.5	2358.018	2216.182	1897.052	1519.193	643.358	262.618	137.182	76.458	47.648
49.0	2344.721	2199.561	1875.998	1505.896	633.606	257.077	133.747	74.131	45.764
49.5	2330.315	2184.047	1854.944	1492.599	624.188	251.537	130.422	72.026	43.991
50.0	2317.018	2168.534	1837.215	1478.193	614.880	246.329	127.430	69.810	42.329
50.5	2302.613	2151.913	1817.269	1462.680	605.128	241.010	124.328	67.815	40.667
51.0	2287.100	2135.291	1796.216	1447.167	595.931	235.913	121.336	65.710	39.005
51.5	2272.695	2120.886	1775.162	1429.437	586.402	230.815	118.344	63.715	37.564
52.0	2259.398	2104.265	1756.324	1411.708	577.426	225.718	115.352	61.831	36.124
52.5	2246.100	2088.752	1737.487	1393.978	568.783	220.953	112.693	60.059	34.794
53.0	2232.803	2071.022	1717.541	1376.249	559.143	216.189	109.923	58.396	33.464
53.5	2219.506	2055.509	1697.595	1357.411	550.167	211.535	107.152	56.734	32.245
54.0	2203.993	2041.104	1678.758	1338.574	540.748	206.659	104.604	55.072	31.027
54.5	2190.696	2024.482	1659.920	1319.736	531.440	202.116	101.834	53.521	29.918

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55.0	2176.291	2010.077	1641.083	1300.899	522.797	197.794	99.285	51.969	28.810
55.5	2160.777	1993.456	1621.137	1280.953	513.157	193.473	96.736	50.529	27.702
56.0	2147.480	1976.834	1602.300	1259.899	504.514	189.151	94.188	49.088	26.816
56.5	2131.967	1959.105	1582.354	1239.954	495.427	184.719	91.861	47.759	25.819
57.0	2116.454	1942.484	1561.300	1220.008	485.898	180.508	89.312	46.429	24.932
57.5	2103.157	1924.754	1543.571	1200.063	477.476	176.408	86.985	45.210	24.046
58.0	2086.535	1907.025	1523.625	1179.009	467.947	172.419	84.769	43.991	23.270
58.5	2073.238	1888.187	1504.788	1157.955	458.971	168.541	82.553	42.883	22.494
59.0	2059.941	1871.566	1485.950	1138.009	449.996	164.773	80.558	41.664	21.719
59.5	2046.644	1853.836	1464.896	1116.956	440.688	161.006	78.564	40.667	20.943
60.0	2039.996	1837.215	1446.059	1095.902	432.488	157.349	76.458	39.559	20.278
60.5	2035.563	1822.810	1427.221	1075.735	423.180	153.914	74.575	38.672	19.613
61.0	2034.455	1807.296	1407.276	1055.678	414.537	150.368	72.691	37.675	19.059
61.5	2037.779	1792.891	1388.438	1034.846	405.894	146.822	70.918	36.789	18.394
62.0	2038.887	1781.810	1369.600	1014.236	396.586	143.387	69.034	35.791	17.840
62.5	2043.320	1774.054	1350.763	993.182	388.164	140.174	67.372	34.905	17.286
63.0	2047.752	1769.621	1330.817	972.904	379.410	136.849	65.821	34.129	16.732
63.5	2052.185	1765.189	1310.872	951.075	370.656	133.857	64.158	33.243	16.289
64.0	2051.076	1761.865	1290.926	930.021	362.124	130.644	62.607	32.467	15.735
64.5	2041.104	1760.757	1269.872	908.524	353.370	127.430	60.945	31.581	15.292
65.0	2021.158	1757.432	1249.927	887.692	345.060	124.328	59.283	30.805	14.848
65.5	1992.348	1751.892	1228.873	867.414	336.749	121.225	57.842	30.029	14.405
66.0	1962.429	1736.379	1210.035	847.025	328.327	118.233	56.402	29.254	13.962
66.5	1931.403	1710.892	1191.198	826.636	320.017	115.241	54.851	28.478	13.519
67.0	1897.052	1680.974	1172.360	806.247	311.263	112.250	53.410	27.813	13.075
67.5	1867.133	1648.839	1153.523	786.301	302.952	109.369	51.969	27.037	12.743
68.0	1826.134	1618.921	1138.009	766.245	294.974	106.377	50.529	26.262	12.300
68.5	1775.162	1586.786	1123.604	746.521	287.106	103.607	49.088	25.597	11.857
69.0	1719.757	1553.544	1110.307	727.129	279.682	100.725	47.759	24.932	11.524
69.5	1643.299	1511.436	1099.891	709.732	271.926	97.844	46.429	24.267	11.192
70.0	1557.976	1458.248	1088.478	689.787	264.280	95.074	45.099	23.492	10.748
70.5	1468.221	1400.627	1077.618	671.171	256.855	92.304	43.770	22.827	10.416
71.0	1368.492	1333.033	1060.443	652.666	249.210	89.534	42.551	22.162	10.084
71.5	1280.953	1255.467	1034.071	632.942	242.007	86.874	41.332	21.497	9.640
72.0	1185.657	1179.009	1004.152	613.218	234.804	84.215	40.113	20.832	9.308
72.5	1098.118	1097.675	971.907	593.383	227.491	81.555	38.783	20.056	8.976
73.0	1028.087	1016.563	940.326	573.659	220.510	78.896	37.453	19.392	8.643
73.5	960.493	942.210	909.854	554.600	213.529	76.237	36.235	18.727	8.311
74.0	909.299	871.957	875.724	535.540	206.659	73.688	35.016	18.062	7.978
74.5	865.419	816.331	839.047	516.481	199.678	71.029	33.797	17.397	7.646
75.0	826.414	768.461	797.161	497.200	192.586	68.591	32.578	16.843	7.313
75.5	798.380	728.127	750.399	478.030	185.716	66.042	31.359	16.067	6.981
76.0	771.121	695.992	701.976	458.306	178.957	63.604	30.140	15.513	6.538
76.5	748.959	669.841	650.671	438.804	172.419	61.167	28.921	14.848	6.095
77.0	728.681	645.463	598.037	419.080	165.992	58.729	27.813	14.184	5.762
77.5	705.965	622.747	547.508	399.134	159.565	56.291	26.594	13.519	5.540
78.0	693.997	601.250	502.408	379.854	153.471	53.964	25.375	12.854	5.319
78.5	691.781	582.967	464.401	361.459	147.265	51.637	24.267	12.189	4.986
79.0	692.557	575.321	431.491	343.287	141.392	49.310	23.048	11.635	4.765
79.5	697.100	576.651	404.232	324.006	135.298	46.983	21.829	11.081	4.543
80.0	701.865	580.196	380.518	303.617	129.203	44.656	20.721	10.527	4.211
80.5	706.186	581.859	359.132	282.452	122.887	42.329	19.502	9.862	3.989
81.0	709.178	582.413	341.181	261.509	116.460	40.002	18.394	9.308	3.768
81.5	705.965	582.523	329.546	242.007	109.923	37.675	17.175	8.754	3.546
82.0	687.460	575.321	324.560	221.840	102.831	35.348	16.067	8.200	3.324
82.5	652.444	553.824	322.233	201.119	95.739	32.910	14.959	7.646	3.103

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	612.331	519.695	319.352	180.176	88.647	30.583	13.851	7.092	2.881
83.5	576.872	486.341	314.033	160.784	81.666	28.256	12.743	6.538	2.770
84.0	539.862	454.428	301.844	143.941	74.685	25.929	11.635	5.984	2.549
84.5	506.952	423.180	283.228	129.647	67.815	23.602	10.527	5.430	2.438
85.0	472.712	392.375	260.845	117.568	61.056	21.275	9.419	4.986	2.216
85.5	442.017	363.675	237.575	106.377	54.296	19.059	8.311	4.432	2.105
86.0	406.115	330.765	215.191	95.407	47.648	16.732	7.203	3.878	1.884
86.5	356.473	289.655	191.257	84.437	41.110	14.405	6.205	3.435	1.773
87.0	308.382	244.334	165.660	72.137	34.351	12.078	5.097	2.881	1.551
87.5	253.974	197.240	137.292	58.729	27.702	9.751	4.100	2.438	1.441
88.0	197.129	147.154	104.604	44.878	21.054	7.535	3.213	1.995	1.330
88.5	141.392	92.858	69.477	30.362	14.405	5.319	2.216	1.551	1.219
89.0	70.585	35.348	34.129	16.954	7.978	3.213	1.551	1.219	0.997
89.5	19.281	5.540	10.305	8.089	4.322	1.773	1.108	0.997	0.997
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-2-L45-850-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-2-L45-850-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	493.36	N.A.	10.50
0-30	1120.48	N.A.	23.90
0-40	1903.83	N.A.	40.60
0-60	3497.39	N.A.	74.60
0-80	4549.58	N.A.	97.00
0-90	4689.85	N.A.	100.00
10-90	4571.19	N.A.	97.50
20-40	1410.47	N.A.	30.10
20-50	2229.87	N.A.	47.50
40-70	2261.82	N.A.	48.20
60-80	1052.19	N.A.	22.40
70-80	383.94	N.A.	8.20
80-90	140.26	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	4689.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.66
10-20	374.71
20-30	627.12
30-40	783.35
40-50	819.40
50-60	774.16
60-70	668.25
70-80	383.94
80-90	140.26
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	68	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	26.4	28.1	26.8	28.4	28.8	20.0	21.7	20.3	22.0	22.3
	3H	29.4	30.9	29.8	31.3	31.6	21.2	22.8	21.6	23.1	23.5
	4H	29.9	31.4	30.3	31.7	32.1	21.7	23.2	22.1	23.5	23.9
	6H	30.5	31.8	30.9	32.2	32.6	22.0	23.4	22.4	23.8	24.1
	8H	30.9	32.2	31.3	32.6	33.0	22.2	23.5	22.6	23.8	24.2
	12H	31.2	32.5	31.7	32.9	33.3	22.2	23.5	22.7	23.9	24.3

UGR Viewed Endwise

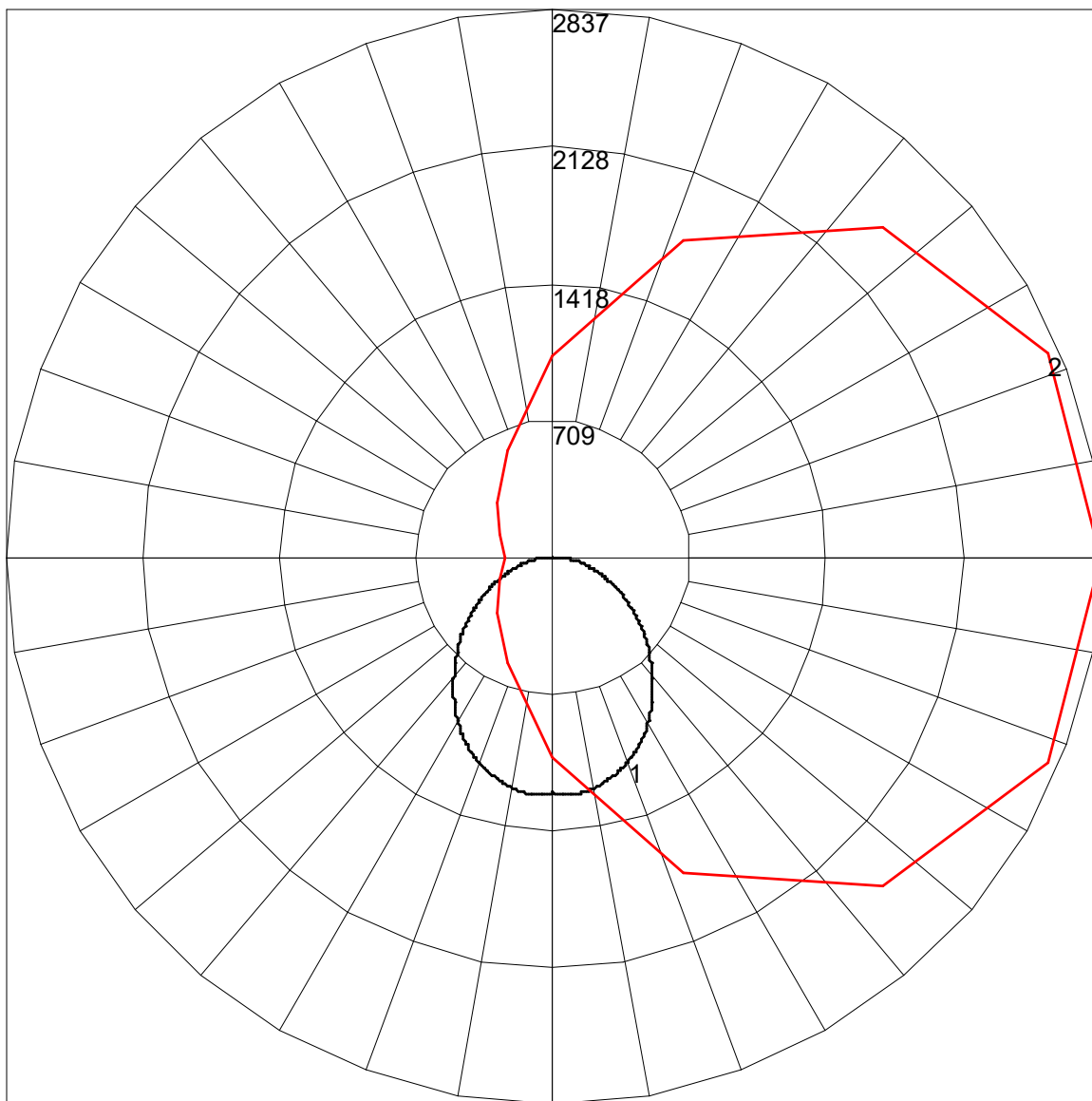
4H	2H	26.9	28.3	27.3	28.7	29.0	21.5	22.9	21.9	23.3	23.7
	3H	30.0	31.3	30.4	31.7	32.1	23.2	24.4	23.6	24.8	25.2
	4H	30.7	31.8	31.1	32.2	32.7	23.8	24.9	24.3	25.4	25.8
	6H	31.4	32.4	31.8	32.8	33.3	24.3	25.2	24.7	25.7	26.1
	8H	31.9	32.8	32.4	33.3	33.8	24.4	25.3	24.9	25.8	26.2
	12H	32.4	33.2	32.9	33.7	34.2	24.5	25.3	25.0	25.8	26.3

8H	4H	30.9	31.8	31.3	32.2	32.7	24.7	25.6	25.2	26.1	26.6
	6H	31.7	32.5	32.2	33.0	33.5	25.3	26.1	25.8	26.6	27.0
	8H	32.4	33.1	32.9	33.6	34.1	25.5	26.2	26.0	26.7	27.2
	12H	33.1	33.7	33.6	34.2	34.7	25.6	26.3	26.2	26.7	27.3

12H	4H	30.9	31.7	31.4	32.2	32.7	24.9	25.7	25.3	26.2	26.6
	6H	31.8	32.5	32.3	32.9	33.4	25.5	26.2	26.0	26.7	27.2
	8H	32.5	33.1	33.0	33.6	34.2	25.8	26.4	26.3	26.9	27.5

Maximum UGR = 34.7

POLAR GRAPH



Maximum Candela = 2836.713 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.)