

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00732 ~ SP1414GV-55L35KEX-TF2-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00732
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 5/29/2018
 [UPDATE] 11/14/2018
 [LUMCAT] EP1414GV-55L-35K-EX-TF2-WMI
 [LUMINAIRE] Nom. 14" dia x 14" H Espresso Pendant Specplume Decorative luminaire
 [OTHER] Reflector: Matte white interior finish
 [OTHER] Beam Angle: 78.2 degrees
 [LAMPCAT] N/A
 [LAMP] N/A, Gen3
 [OTHER] 4" Diffuse Domed Glass
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03
 [OTHER] This report prepared by Spectrum Lighting
 [_CRI] 85+
 [_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03
 [_LAMPMULT] 15L x 0.265, 27L x 0.491, 37L x 0.679

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.17 ft (Diameter)
Luminous Width (90-270)	1.17 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8097	8016	7755
55	5750	5655	5437
65	5155	5143	4985
75	4111	4169	4070
85	1330	1652	1556

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1992.739	1992.739	1992.739	1992.739	1992.739	1992.739	1992.739	1992.739	1992.739	1992.739
2.5	2001.669	2000.188	1998.701	1999.363	1992.747	1977.650	1974.574	1974.916	1978.365	1979.718
5.0	2003.869	2002.914	1998.728	1994.101	1983.055	1963.805	1959.339	1957.587	1960.663	1963.303
7.5	1997.728	1996.609	1989.794	1982.280	1967.731	1944.990	1939.604	1936.745	1939.122	1943.334
10.0	1980.841	1985.231	1974.266	1964.562	1947.651	1921.914	1918.616	1913.918	1915.523	1917.120
12.5	1953.207	1959.172	1947.436	1939.389	1923.732	1894.515	1890.734	1884.306	1885.882	1884.922
15.0	1919.117	1926.609	1915.958	1908.802	1892.621	1863.794	1861.455	1853.019	1853.654	1849.544
17.5	1879.727	1885.621	1878.000	1872.930	1856.765	1830.345	1824.755	1817.401	1818.657	1811.629
20.0	1836.219	1841.761	1837.176	1833.885	1818.657	1793.516	1787.049	1780.247	1782.750	1772.346
22.5	1789.988	1797.281	1793.081	1792.086	1779.346	1754.384	1747.965	1739.998	1742.439	1732.183
25.0	1746.396	1752.637	1749.231	1748.976	1739.649	1712.751	1708.782	1697.906	1701.040	1690.814
27.5	1704.217	1706.552	1705.610	1705.001	1699.789	1669.755	1661.961	1652.775	1653.856	1648.828
30.0	1645.605	1660.202	1645.901	1660.705	1640.598	1600.145	1612.983	1586.066	1605.659	1577.435
32.5	1579.954	1567.393	1573.989	1568.179	1574.959	1519.137	1503.232	1490.765	1489.234	1493.872
35.0	1408.241	1469.028	1415.773	1461.721	1397.104	1324.148	1380.234	1319.840	1365.548	1296.796
37.5	1201.709	1223.581	1204.169	1226.069	1191.649	1090.298	1113.619	1067.896	1104.774	1063.866
40.0	958.032	969.130	966.013	963.692	938.279	852.849	856.446	837.172	836.892	835.483
42.5	704.979	760.113	714.810	753.357	676.802	614.491	662.434	625.388	661.446	608.175
45.0	572.425	557.118	566.702	550.270	548.234	500.544	491.198	491.152	492.055	500.799
47.5	460.947	479.546	459.464	466.822	434.289	408.355	421.824	412.823	427.072	413.232
50.0	406.820	405.530	399.602	392.810	384.425	363.038	360.892	360.469	365.250	367.889
52.5	358.796	366.070	353.987	354.672	337.810	323.119	327.370	323.354	331.745	326.674
55.0	329.737	328.670	324.305	317.686	311.789	299.159	297.297	296.996	300.092	301.784
57.5	301.691	303.315	298.084	294.346	285.845	276.049	276.047	275.714	278.680	277.577
60.0	274.712	277.473	271.888	270.729	261.283	252.424	254.083	252.493	256.605	253.795
62.5	247.581	249.616	245.696	243.835	236.575	228.690	230.693	228.563	231.969	229.780
65.0	217.829	221.465	217.320	216.943	210.613	202.819	206.133	203.062	206.566	202.237
67.5	188.417	192.454	188.796	190.061	184.618	176.850	179.780	177.128	179.008	174.775
70.0	160.839	164.199	161.318	162.804	158.503	150.351	153.673	151.668	152.354	147.717
72.5	133.466	137.003	134.193	134.718	132.082	124.494	127.776	125.944	126.933	121.962
75.0	106.382	110.313	107.878	109.157	105.303	99.541	101.992	98.886	101.006	97.980
77.5	80.996	83.741	81.983	84.638	80.206	73.402	76.359	72.913	75.019	71.222
80.0	56.155	57.034	57.210	58.926	55.807	47.893	51.058	48.108	49.292	46.551
82.5	31.935	34.384	34.420	34.402	32.938	25.320	27.482	25.339	26.794	25.131
85.0	11.592	14.070	14.397	14.970	13.554	9.340	8.204	8.187	9.172	7.957
87.5	2.341	2.892	2.661	2.601	2.532	1.646	1.581	1.653	1.819	1.049
90.0	1.024	0.301	0.721	0.515	0.630	0.606	0.387	0.830	0.356	0.801
92.5	0.000	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	0.000
97.5	0.000	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	0.000
102.5	0.000	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	0.000
107.5	0.000	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	0.000
112.5	0.000	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	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1992.739	1992.739	1992.739	1992.739	1992.739	1992.739	1992.739
2.5	1983.814	1990.858	1994.080	1991.058	1995.468	1998.981	2001.669
5.0	1970.707	1976.740	1985.808	1990.385	1997.531	2005.163	2003.869
7.5	1949.625	1957.444	1970.032	1979.830	1987.589	1994.030	1997.728
10.0	1926.327	1930.487	1949.206	1964.058	1970.448	1981.485	1980.841
12.5	1894.564	1898.921	1917.777	1935.719	1940.971	1952.140	1953.207
15.0	1861.131	1862.799	1880.650	1902.178	1907.422	1921.990	1919.117
17.5	1820.733	1824.504	1840.470	1862.431	1868.279	1879.554	1879.727
20.0	1779.424	1782.613	1798.980	1820.646	1828.030	1837.108	1836.219
22.5	1737.640	1739.342	1755.049	1779.017	1786.534	1794.537	1789.988
25.0	1695.821	1696.387	1710.298	1737.426	1745.736	1752.081	1746.396
27.5	1650.515	1653.522	1663.941	1694.489	1705.583	1710.462	1704.217
30.0	1602.891	1587.837	1617.185	1651.324	1650.577	1662.587	1645.605
32.5	1486.075	1517.414	1508.601	1562.953	1584.466	1584.987	1579.954
35.0	1356.939	1313.516	1389.151	1469.772	1427.530	1471.410	1408.241
37.5	1094.240	1090.317	1138.103	1223.787	1214.410	1232.506	1201.709
40.0	842.574	853.759	872.380	971.103	974.223	995.334	958.032
42.5	660.325	616.140	693.035	761.576	720.736	762.793	704.979
45.0	499.058	517.675	518.009	559.334	575.758	576.487	572.425
47.5	431.627	423.961	451.832	482.713	472.307	486.260	460.947
50.0	372.186	379.940	387.466	410.166	412.063	414.086	406.820
52.5	338.688	337.387	352.860	371.435	364.811	372.125	358.796
55.0	307.582	312.340	319.237	334.637	333.707	336.012	329.737
57.5	282.381	287.083	294.142	308.251	306.111	307.870	301.691
60.0	257.346	260.375	268.642	281.266	276.770	279.535	274.712
62.5	232.640	233.488	240.831	251.970	247.177	250.987	247.581
65.0	206.906	205.761	212.796	222.421	218.392	222.165	217.829

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CANDELA TABULATION - (Cont.)

67.5	179.596	178.060	183.937	192.190	189.684	193.103	188.417
70.0	152.666	150.426	155.515	163.335	161.191	164.405	160.839
72.5	126.053	123.700	127.810	136.328	133.066	135.887	133.466
75.0	100.072	97.801	100.356	108.562	105.762	109.069	106.382
77.5	73.953	70.494	73.550	81.123	79.507	82.521	80.996
80.0	47.608	45.442	48.483	55.151	55.057	56.730	56.155
82.5	23.965	23.735	25.661	32.835	32.845	33.803	31.935
85.0	6.814	7.780	6.792	11.428	12.353	12.288	11.592
87.5	1.525	1.563	1.444	2.328	2.355	2.816	2.341
90.0	0.308	0.814	0.881	0.488	0.831	0.281	1.024
92.5	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
97.5	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
102.5	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
107.5	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
112.5	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
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	719.77	N.A.	21.10
0-30	1514.37	N.A.	44.40
0-40	2345.77	N.A.	68.80
0-60	3073.95	N.A.	90.10
0-80	3393.08	N.A.	99.50
0-90	3411.69	N.A.	100.00
10-90	3223.61	N.A.	94.50
20-40	1626.00	N.A.	47.70
20-50	2068.35	N.A.	60.60
40-70	937.68	N.A.	27.50
60-80	319.13	N.A.	9.40
70-80	109.63	N.A.	3.20
80-90	18.61	N.A.	0.50
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3411.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	188.07
10-20	531.70
20-30	794.60
30-40	831.40
40-50	442.35
50-60	285.82
60-70	209.50
70-80	109.63
80-90	18.61
90-100	0.08
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

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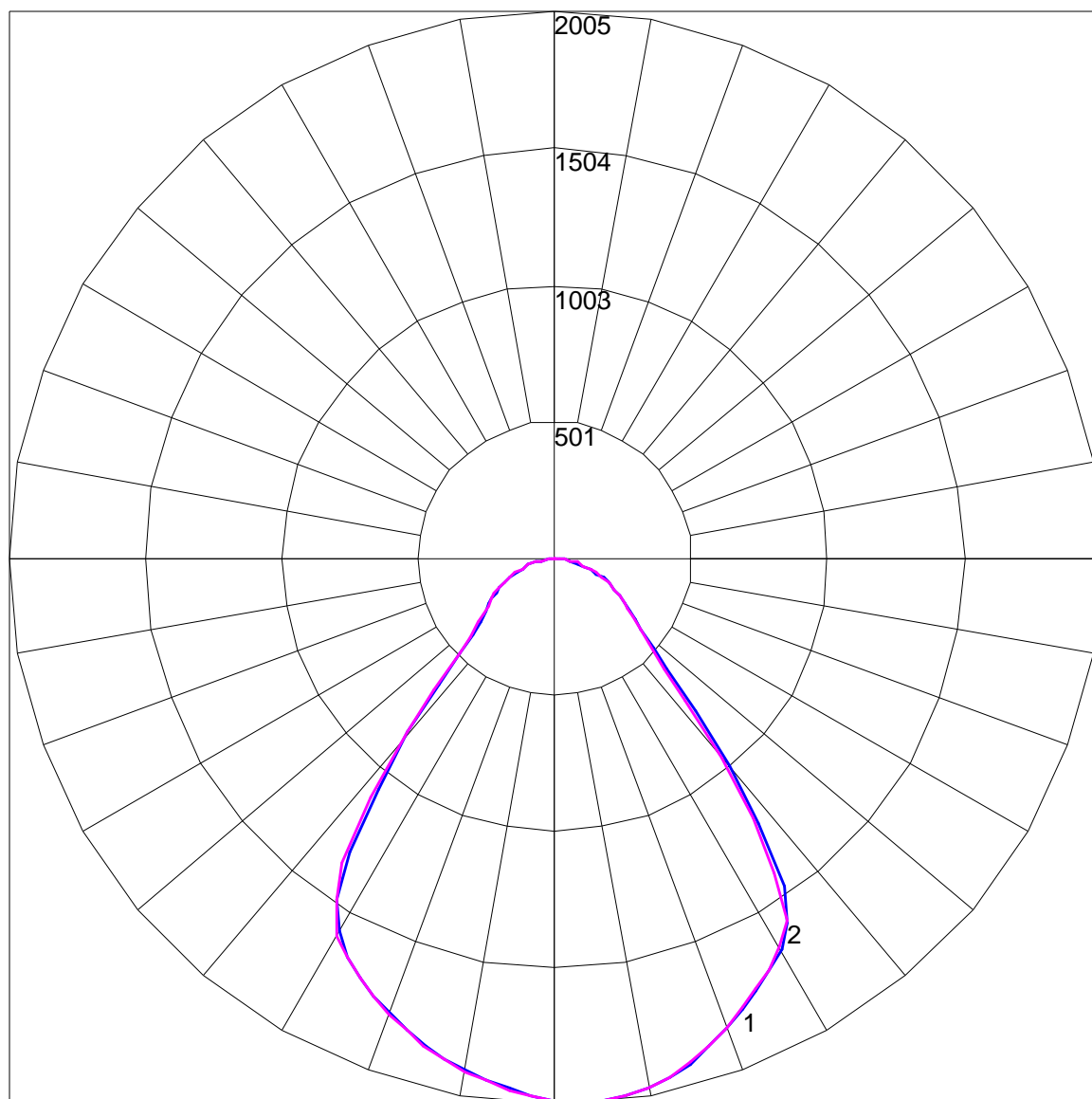
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	74	69	64	72	67	64	62
5	83	73	65	59	81	71	64	59	70	63	58	68	62	58	66	61	57	56
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00732 ~ SP1414GV-55L35KEX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 2005.163 Located At Horizontal Angle = 337.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)