

IES Report

ZipTwo® | 707 | Micro 3508, 85° Asymmetric | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-A1-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	72	74	76	76
Total Lumens, 4' rail length (1219mm)	2827	2916	2975	2975
Lumens per foot (305mm)	707	729	744	744
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	82	82	82	82

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911525 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUEDATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-35-A1-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, micro 3508, 85° asymmetric lens,

[MORE] high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2975
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.40
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	171407	132729	43039
55	160673	117405	36621
65	139315	97843	31635
75	117854	81233	26721
85	118242	74495	18543

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194
5	1048.976	1048.541	1045.775	1041.547	1035.718	1028.410	1019.379	1008.730	996.620	983.935
10	1314.727	1312.099	1305.400	1295.621	1281.771	1264.267	1242.969	1217.878	1189.725	1160.128
15	1568.227	1565.008	1555.386	1540.648	1519.803	1492.224	1459.703	1420.327	1377.001	1330.039
20	1781.760	1777.375	1766.291	1747.325	1721.069	1686.947	1645.240	1595.058	1537.307	1475.172
25	1930.808	1925.571	1913.461	1892.894	1864.166	1825.504	1778.541	1720.930	1655.732	1579.885
30	2006.655	2002.566	1989.446	1968.010	1939.282	1897.122	1845.340	1784.527	1713.935	1629.197
35	2006.951	2003.297	1990.908	1969.471	1939.421	1897.557	1843.443	1778.976	1704.156	1613.867
40	1934.027	1929.938	1918.559	1898.149	1867.229	1825.364	1769.945	1703.129	1624.377	1532.923
45	1794.288	1790.216	1778.837	1758.705	1729.386	1686.947	1629.910	1561.946	1481.436	1389.407
50	1598.260	1594.762	1584.113	1565.443	1535.985	1494.121	1440.163	1370.876	1289.636	1200.809
55	1364.317	1361.550	1352.937	1335.728	1307.436	1268.060	1217.304	1151.810	1077.425	996.916
60	1116.367	1113.304	1105.579	1090.702	1065.315	1030.167	985.101	927.925	863.893	795.928
65	871.618	869.443	863.162	850.181	828.745	799.861	762.520	716.149	665.237	612.149
70	646.427	644.827	638.841	628.784	612.149	589.390	560.959	528.281	490.071	450.695
75	451.565	450.103	445.736	437.854	425.465	408.691	387.672	363.764	337.804	311.251
80	284.420	283.098	279.896	274.346	265.315	253.936	239.929	224.477	207.843	191.069
85	152.563	151.832	149.501	145.708	139.879	132.727	124.410	115.379	105.896	96.118
90	62.710	62.275	60.970	58.638	55.576	51.782	47.693	42.874	38.210	33.686
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194
5	969.789	954.477	939.148	922.966	906.053	889.418	872.210	855.001	837.636	820.427
10	1127.015	1092.598	1055.554	1017.326	979.707	941.775	902.695	864.328	827.718	790.534
15	1276.812	1221.967	1163.764	1102.655	1043.008	983.048	920.773	863.893	808.752	753.768
20	1404.719	1332.092	1252.156	1170.046	1089.083	1008.295	924.862	849.746	778.563	708.563
25	1495.582	1406.912	1309.907	1209.126	1109.946	1011.062	909.985	819.262	735.098	654.449
30	1534.523	1434.769	1324.505	1209.422	1095.800	980.716	870.157	769.811	677.782	592.018
35	1511.921	1403.849	1285.564	1161.728	1041.112	919.468	804.089	700.541	608.356	523.322
40	1424.416	1313.422	1191.482	1066.777	946.595	826.987	714.983	616.813	530.317	451.861
45	1281.614	1171.646	1054.823	936.242	823.925	715.262	614.185	526.681	450.538	382.713
50	1100.898	1000.552	897.875	789.647	692.798	601.361	514.570	441.786	377.754	321.761
55	909.394	819.122	732.470	648.167	565.622	493.568	423.412	363.608	310.955	265.454
60	724.310	651.682	582.395	510.777	454.627	394.684	339.979	293.312	251.447	215.429

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CANDELA TABULATION - (Cont.)

65	558.192	503.051	450.834	400.374	350.923	305.996	266.185	230.011	197.925	170.503
70	411.597	371.490	332.984	295.504	261.365	228.271	198.952	172.103	147.900	128.499
75	283.533	256.267	230.306	204.641	181.151	158.392	137.112	118.720	102.382	88.531
80	173.861	156.791	140.453	124.410	109.690	95.248	81.832	69.861	59.369	51.347
85	86.791	77.308	67.964	59.212	51.052	43.169	35.583	29.319	23.925	20.567
90	29.180	24.656	20.271	16.043	12.406	8.752	5.690	3.202	1.897	1.757
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194	840.194
5	803.950	788.046	772.299	757.996	743.415	730.591	718.916	707.536	697.479	688.727
10	756.691	724.606	693.686	664.663	638.980	615.073	593.340	573.504	556.574	541.558
15	704.909	659.408	616.969	578.602	545.194	515.162	488.905	464.545	444.848	427.936
20	647.889	591.583	543.593	499.397	462.509	430.859	403.001	379.511	360.998	344.798
25	586.328	525.219	473.732	428.806	392.353	362.164	337.212	315.636	299.437	286.752
30	521.426	459.586	409.265	366.531	333.280	306.588	285.430	268.082	255.241	244.453
35	454.923	396.581	350.627	313.879	284.855	262.531	244.748	230.741	220.528	212.367
40	390.021	338.534	299.002	268.082	243.583	225.347	211.045	200.117	192.096	186.110
45	329.782	286.317	253.344	227.975	207.843	193.262	181.882	173.426	167.301	162.481
50	277.861	241.825	214.699	193.262	177.793	165.544	156.791	150.371	145.847	142.071
55	230.011	201.857	178.681	162.046	150.806	140.609	133.319	127.907	123.836	120.773
60	187.276	165.109	149.205	134.328	123.975	116.093	110.264	105.896	102.677	99.911
65	152.702	131.701	117.711	107.358	99.041	92.916	88.235	84.599	81.676	79.640
70	112.595	99.476	89.262	81.380	75.116	70.453	66.799	63.736	61.700	59.804
75	77.447	68.399	61.700	56.446	51.922	48.859	46.232	44.196	42.595	41.429
80	44.927	39.672	36.035	33.112	30.624	28.884	27.422	26.257	25.387	24.656
85	18.079	16.182	14.877	13.711	12.980	12.250	11.815	11.380	11.223	10.945
90	1.757	1.462	1.305	1.166	1.166	1.027	0.870	0.870	0.870	0.870
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	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.)

140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	840.194	840.194	840.194	840.194	840.194	840.194	840.194
5	680.845	674.146	669.187	664.367	661.600	659.704	658.973
10	528.281	517.928	509.037	502.025	497.362	494.299	493.273
15	413.198	401.975	392.353	385.497	380.538	377.476	376.588
20	331.522	321.465	313.287	307.319	302.934	300.602	299.593
25	276.103	267.786	261.365	256.563	253.501	251.743	250.873
30	236.292	230.150	225.191	221.693	219.362	217.900	217.622
35	206.242	201.579	197.925	195.158	193.558	192.670	192.235
40	181.151	177.793	175.166	173.269	172.103	171.373	171.233
45	158.984	156.356	154.599	152.998	152.128	151.832	151.693
50	139.148	137.251	135.790	134.624	134.032	133.754	133.597
55	118.442	116.824	115.658	114.649	114.057	113.761	113.761
60	97.875	96.413	95.387	94.517	93.925	93.647	93.647
65	77.743	76.577	75.551	74.820	74.246	74.089	74.089
70	58.481	57.472	56.585	56.011	55.576	55.280	55.141
75	40.403	39.672	38.941	38.506	38.210	38.071	37.915
80	24.064	23.629	23.194	22.898	22.603	22.603	22.463
85	10.788	10.649	10.353	10.353	10.353	10.214	10.214
90	0.870	0.870	0.870	0.870	0.870	0.870	0.870
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	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	335.09	N.A.	11.30
0-30	763.24	N.A.	25.70
0-40	1315.94	N.A.	44.20
0-60	2376.42	N.A.	79.90
0-80	2907.18	N.A.	97.70
0-90	2970.61	N.A.	99.80
10-90	2889.21	N.A.	97.10
20-40	980.85	N.A.	33.00
20-50	1554.08	N.A.	52.20
40-70	1402.53	N.A.	47.10
60-80	530.76	N.A.	17.80
70-80	188.72	N.A.	6.30
80-90	63.43	N.A.	2.10
90-110	4.75	N.A.	0.20
90-120	4.75	N.A.	0.20
90-130	4.75	N.A.	0.20
90-150	4.75	N.A.	0.20
90-180	4.75	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	2975.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.40
10-20	253.69
20-30	428.16
30-40	552.69
40-50	573.23
50-60	487.25
60-70	342.04
70-80	188.72
80-90	63.43
90-100	4.75
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

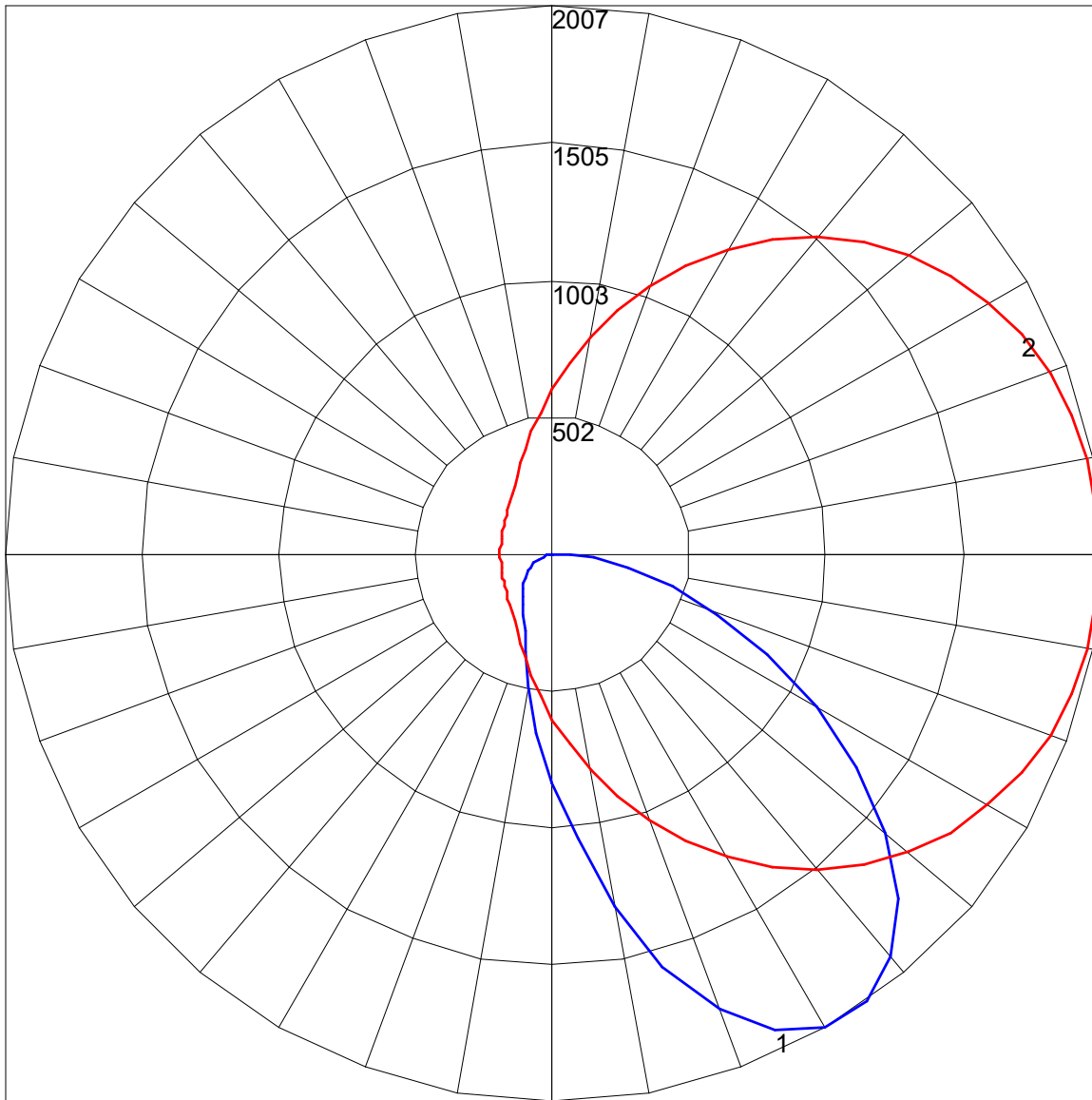
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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A1.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 2006.951 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)