

IES Report

ZipTwo® | 707 | Square 3572, Single Side Diffuse | 80 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	113	116	118	118
Total Lumens, 4' rail length (1219mm)	4433	4573	4666	4666
Lumens per foot (305mm)	1108	1143	1167	1167
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_HA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011204 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-35-HA-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] single side diffuse lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4666
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	72	167
55	0	74	120
65	0	78	120
75	0	81	92
85	0	86	66

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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	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271
5	1.462	1.601	1.601	1.601	1.757	1.757	1.897	1.897	1.897	2.036
10	1.166	1.166	1.166	1.462	1.462	1.462	1.462	1.462	1.601	1.757
15	1.462	1.305	1.462	1.305	1.462	1.462	1.462	1.462	1.462	1.462
20	1.462	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601
25	2.036	2.036	2.036	2.036	1.897	1.897	1.897	1.897	1.897	1.897
30	2.332	2.332	2.488	2.488	2.488	2.192	2.192	2.192	2.036	1.897
35	2.923	2.923	2.923	2.767	2.767	2.767	2.627	2.488	2.332	2.332
40	3.497	3.497	3.358	3.358	3.358	3.062	3.062	2.923	2.627	2.627
45	3.793	3.793	3.793	3.793	3.654	3.654	3.358	3.202	2.923	2.923
50	4.385	4.385	4.228	4.228	4.228	3.932	3.932	3.654	3.497	3.202
55	4.663	4.663	4.663	4.663	4.524	4.524	4.228	3.932	3.793	3.497
60	5.255	5.098	5.098	5.098	4.820	4.820	4.524	4.385	4.089	3.793
65	5.551	5.551	5.394	5.394	5.255	5.098	4.820	4.663	4.385	4.089
70	5.829	5.829	5.690	5.690	5.551	5.394	5.098	4.959	4.663	4.385
75	6.125	6.125	5.986	5.986	5.829	5.690	5.394	5.098	4.959	4.524
80	6.421	6.421	6.264	6.264	5.986	5.986	5.690	5.394	5.098	4.663
85	6.716	6.716	6.560	6.421	6.264	5.986	5.829	5.551	5.255	4.959
90	6.716	6.716	6.716	6.560	6.560	6.264	5.986	5.690	5.394	4.959
95	6.995	6.995	6.995	6.856	6.716	6.560	6.264	5.986	5.551	5.255
100	7.291	7.151	6.995	6.995	6.856	6.716	6.421	5.986	5.690	5.255
105	7.291	7.291	7.291	7.291	6.995	6.856	6.560	6.264	5.986	5.551
110	7.586	7.447	7.291	7.291	7.151	6.995	6.716	6.421	5.986	5.690
115	7.586	7.586	7.447	7.291	7.291	6.995	6.716	6.560	6.264	5.690
120	7.586	7.586	7.447	7.291	7.291	6.995	6.856	6.560	6.264	5.829
125	7.586	7.586	7.447	7.291	7.291	6.995	6.716	6.421	6.125	5.829
130	7.291	7.447	7.291	7.291	6.995	6.995	6.716	6.560	6.125	5.829
135	7.291	7.151	7.151	6.995	6.995	6.716	6.421	6.264	6.125	5.986
140	6.995	6.995	6.856	6.856	6.716	6.264	6.421	6.264	6.125	5.986
145	6.716	6.716	6.716	6.560	5.986	6.125	6.421	6.421	6.421	6.264
150	6.421	6.421	6.421	5.829	5.829	6.125	6.264	6.716	6.716	6.560
155	6.125	5.829	5.690	5.394	5.690	5.986	6.716	6.716	6.716	6.560
160	5.551	5.551	4.820	5.098	5.690	6.560	6.716	6.716	6.560	6.856
165	5.551	4.820	4.663	5.255	6.716	7.151	7.447	7.882	7.882	8.161
170	6.995	6.125	6.264	7.586	8.021	8.317	8.456	8.456	8.456	8.456
175	5.255	6.125	7.291	7.882	8.161	8.456	8.456	8.613	8.752	8.613
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	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271
5	2.036	2.192	2.332	2.627	3.358	4.820	7.586	11.815	17.365	24.656
10	1.757	1.757	1.897	1.897	2.192	2.192	2.767	5.986	16.339	33.251
15	1.601	1.601	1.757	1.897	1.897	2.192	2.192	3.497	15.608	42.160
20	1.601	1.601	1.601	1.757	1.897	1.897	2.192	2.627	14.442	50.912
25	1.601	1.601	1.601	1.601	1.757	1.897	2.192	2.488	14.581	58.934
30	1.897	1.897	1.757	1.601	1.601	1.897	2.036	2.488	13.850	66.799
35	2.036	2.036	1.897	1.757	1.757	1.897	2.036	2.488	11.380	73.654
40	2.332	2.192	2.036	1.897	1.757	1.601	1.897	2.332	10.510	81.971
45	2.627	2.332	2.332	2.036	1.897	1.757	1.897	2.332	9.622	87.800
50	2.923	2.627	2.332	2.036	2.036	1.757	1.757	2.192	8.613	92.916
55	3.202	2.923	2.627	2.332	2.036	1.757	1.757	2.036	8.021	96.848
60	3.497	3.062	2.767	2.488	2.192	2.036	1.757	1.897	7.151	109.968

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CANDELA TABULATION - (Cont.)

65	3.793	3.358	2.923	2.627	2.332	2.036	1.757	1.757	8.891	120.617
70	3.793	3.497	3.062	2.767	2.332	2.036	1.757	1.601	8.161	119.608
75	4.089	3.654	3.202	2.767	2.488	2.192	1.757	1.601	7.291	120.617
80	4.385	3.793	3.358	2.923	2.488	2.192	1.897	1.601	6.560	120.617
85	4.385	3.932	3.497	3.062	2.627	2.192	2.036	1.757	5.394	119.155
90	4.524	4.089	3.654	3.062	2.767	2.332	2.036	1.757	4.385	120.913
95	4.663	4.228	3.654	3.202	2.767	2.488	2.036	1.757	4.089	118.581
100	4.820	4.385	3.932	3.358	2.923	2.488	2.192	1.757	3.793	115.519
105	4.959	4.524	4.089	3.654	3.062	2.627	2.332	2.036	4.959	111.430
110	5.255	4.663	4.228	3.654	3.202	2.923	2.488	2.192	4.663	81.832
115	5.394	4.820	4.385	3.932	3.497	3.062	2.767	2.767	4.663	72.923
120	5.394	4.959	4.524	4.089	3.654	3.202	2.923	3.358	4.663	62.570
125	5.394	5.098	4.663	4.228	3.793	3.497	3.202	3.654	4.820	51.922
130	5.394	5.098	4.820	4.524	3.932	3.793	3.793	4.089	4.959	41.569
135	5.690	5.394	5.098	4.524	4.228	4.228	4.385	4.385	5.098	34.574
140	5.829	5.551	5.098	4.820	4.663	4.820	4.663	4.820	5.255	29.615
145	6.125	5.829	5.551	5.098	5.394	5.551	5.098	5.098	5.551	23.925
150	6.264	6.125	5.829	6.125	6.264	6.125	5.690	5.690	6.421	21.141
155	6.264	6.264	6.716	6.995	6.716	6.421	6.264	6.421	6.856	19.105
160	7.291	7.447	7.586	7.291	6.995	6.856	6.856	6.995	7.151	15.904
165	8.021	8.021	7.726	7.447	7.291	7.291	7.291	7.447	7.447	12.841
170	8.317	8.021	7.882	7.882	8.021	8.021	8.021	8.161	8.021	10.788
175	8.613	8.456	8.613	8.613	8.752	8.752	8.752	8.752	8.752	9.622
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	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271	20.271
5	32.086	40.107	47.989	55.576	63.162	70.018	76.717	82.998	88.827	93.925
10	50.756	68.991	87.070	104.435	122.235	138.417	153.868	168.902	182.752	195.437
15	69.722	98.310	127.037	154.460	183.187	209.444	234.674	259.469	282.524	302.934
20	87.800	127.037	166.414	204.641	245.027	281.932	317.811	352.820	385.636	415.094
25	105.305	154.460	204.641	253.779	305.422	353.551	400.374	447.772	489.636	528.716
30	128.203	181.447	242.260	302.064	365.957	425.308	483.215	542.428	585.319	641.173
35	143.376	208.574	277.861	348.000	423.707	494.003	562.994	629.515	692.363	752.602
40	154.025	232.342	310.677	391.187	477.821	559.062	636.214	715.714	788.638	858.638
45	167.005	253.640	340.866	433.625	524.784	598.299	702.716	794.902	877.465	956.217
50	178.681	269.839	371.055	469.069	569.276	666.124	764.713	866.224	956.078	1043.582
55	188.146	285.290	390.595	499.258	596.246	714.688	823.646	926.028	1023.746	1117.532
60	195.889	298.271	409.405	520.695	629.062	751.871	863.753	975.183	1078.295	1180.694
65	198.517	308.050	423.568	539.800	662.905	780.460	896.413	1012.663	1122.926	1222.402
70	202.884	315.184	434.356	553.807	680.270	801.322	919.903	1042.712	1151.375	1253.322
75	205.076	323.066	440.916	562.420	690.919	813.433	933.614	1054.092	1164.495	1269.800
80	209.009	324.823	443.543	566.213	691.633	818.392	938.713	1058.894	1168.880	1273.750
85	207.982	324.092	442.813	569.119	690.188	812.406	935.650	1054.823	1163.329	1266.737
90	206.242	321.169	442.673	563.864	683.472	803.950	921.643	1042.121	1148.313	1249.964
95	202.745	312.417	431.868	554.103	671.518	789.647	908.089	1021.711	1125.693	1224.003
100	197.925	304.987	421.515	537.469	658.677	773.030	884.755	994.723	1095.069	1190.612
105	191.800	296.078	408.395	520.695	618.866	747.939	855.436	961.472	1060.948	1149.775
110	180.716	284.995	393.083	500.720	604.720	718.324	821.158	925.001	1016.752	1101.629
115	169.772	272.449	375.283	477.230	585.754	683.768	781.190	877.012	966.431	1046.645
120	156.652	257.868	354.142	450.538	552.937	644.670	736.124	826.256	907.654	984.944
125	139.444	229.871	319.429	411.301	506.410	594.941	686.534	770.263	846.249	917.711
130	133.162	198.360	284.420	366.392	449.372	531.779	615.508	701.707	778.563	845.518
135	96.848	165.979	245.758	319.568	392.927	465.850	540.688	613.315	686.099	760.484

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CANDELA TABULATION - (Cont.)

140	77.308	152.424	204.050	271.718	342.328	403.871	466.581	530.613	590.121	653.857
145	61.840	115.954	170.642	224.025	288.944	352.089	400.513	449.077	499.989	546.221
150	50.912	93.925	142.645	187.276	234.830	289.519	342.606	383.009	416.556	453.461
155	42.734	76.421	114.353	153.433	193.697	227.087	268.656	315.044	345.094	369.733
160	34.852	60.970	88.966	117.850	148.196	178.089	206.242	233.665	262.984	284.125
165	26.552	44.770	65.494	85.330	108.071	127.907	147.169	165.839	183.918	204.781
170	18.531	30.050	42.734	56.150	69.287	80.806	92.916	105.305	114.927	123.401
175	11.815	16.043	21.872	27.857	34.417	40.838	46.232	51.347	55.576	59.369
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

	150	155	160	165	170	175	180
0	20.271	20.271	20.271	20.271	20.271	20.271	20.271
5	98.449	102.382	105.601	108.228	110.125	111.134	111.430
10	206.538	215.864	223.747	230.150	234.674	237.301	238.032
15	321.761	337.508	350.923	361.711	369.158	373.682	375.422
20	442.378	465.415	484.973	500.424	511.369	518.224	520.695
25	564.752	593.618	618.866	639.711	654.588	663.775	667.133
30	685.369	725.041	758.153	783.818	802.488	814.598	818.235
35	807.447	853.835	893.647	924.427	947.326	961.907	966.431
40	921.800	975.618	1023.016	1060.791	1087.343	1103.682	1109.372
45	1028.131	1089.240	1143.058	1185.653	1215.251	1233.625	1240.342
50	1123.083	1190.456	1249.529	1296.648	1329.743	1350.170	1357.322
55	1202.566	1275.785	1337.921	1390.434	1426.452	1448.915	1455.614
60	1267.468	1344.481	1409.818	1463.792	1501.429	1525.771	1533.218
65	1313.265	1395.828	1463.201	1518.046	1557.578	1582.808	1590.691
70	1345.803	1427.322	1499.671	1554.081	1593.596	1619.122	1627.144
75	1365.343	1446.584	1517.019	1571.290	1610.962	1636.331	1643.778
80	1368.841	1449.490	1518.776	1572.595	1612.858	1636.922	1644.648
85	1360.384	1439.867	1507.832	1561.946	1600.017	1623.646	1631.807
90	1341.557	1419.005	1486.099	1538.612	1575.518	1598.260	1605.846
95	1312.969	1388.381	1451.839	1504.630	1540.805	1563.112	1570.263
100	1276.360	1349.005	1410.113	1460.295	1495.878	1517.611	1524.466
105	1231.885	1301.607	1360.523	1408.652	1442.356	1464.088	1470.787
110	1178.206	1244.726	1303.782	1347.978	1380.794	1401.361	1407.486
115	1121.030	1183.461	1237.871	1279.874	1310.498	1329.743	1336.024
120	1054.666	1113.600	1164.356	1203.001	1232.616	1249.964	1255.514
125	982.474	1036.883	1084.124	1121.186	1147.582	1163.764	1169.158
130	904.156	954.025	997.055	1031.194	1054.962	1069.700	1074.937
135	820.862	865.789	904.295	935.076	956.809	969.928	974.017
140	720.517	772.873	806.716	833.999	853.975	865.650	869.878
145	605.155	660.278	705.796	730.000	746.477	757.422	760.780
150	495.326	540.235	586.328	622.363	636.805	645.697	649.055
155	391.918	423.847	461.779	505.522	526.246	534.110	536.459
160	301.768	315.914	341.597	371.055	409.996	417.722	419.775
165	217.326	225.347	229.576	245.323	268.952	295.800	297.244
170	132.153	137.547	138.713	138.713	149.797	176.923	189.312
175	61.996	63.301	63.736	60.239	56.150	57.037	77.587
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	40.01	N.A.	0.90
0-30	136.40	N.A.	2.90
0-40	320.63	N.A.	6.90
0-60	993.50	N.A.	21.30
0-80	1977.51	N.A.	42.40
0-90	2509.37	N.A.	53.80
10-90	2504.42	N.A.	53.70
20-40	280.63	N.A.	6.00
20-50	567.03	N.A.	12.20
40-70	1140.04	N.A.	24.40
60-80	984.01	N.A.	21.10
70-80	516.83	N.A.	11.10
80-90	531.86	N.A.	11.40
90-110	982.83	N.A.	21.10
90-120	1383.21	N.A.	29.60
90-130	1699.36	N.A.	36.40
90-150	2060.38	N.A.	44.20
90-180	2157.08	N.A.	46.20
110-180	1174.25	N.A.	25.20
0-180	4666.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.96
10-20	35.05
20-30	96.39
30-40	184.24
40-50	286.41
50-60	386.45
60-70	467.18
70-80	516.83
80-90	531.86
90-100	514.37
100-110	468.46
110-120	400.38
120-130	316.15
130-140	223.53
140-150	137.49
150-160	69.57
160-170	24.05
170-180	3.08

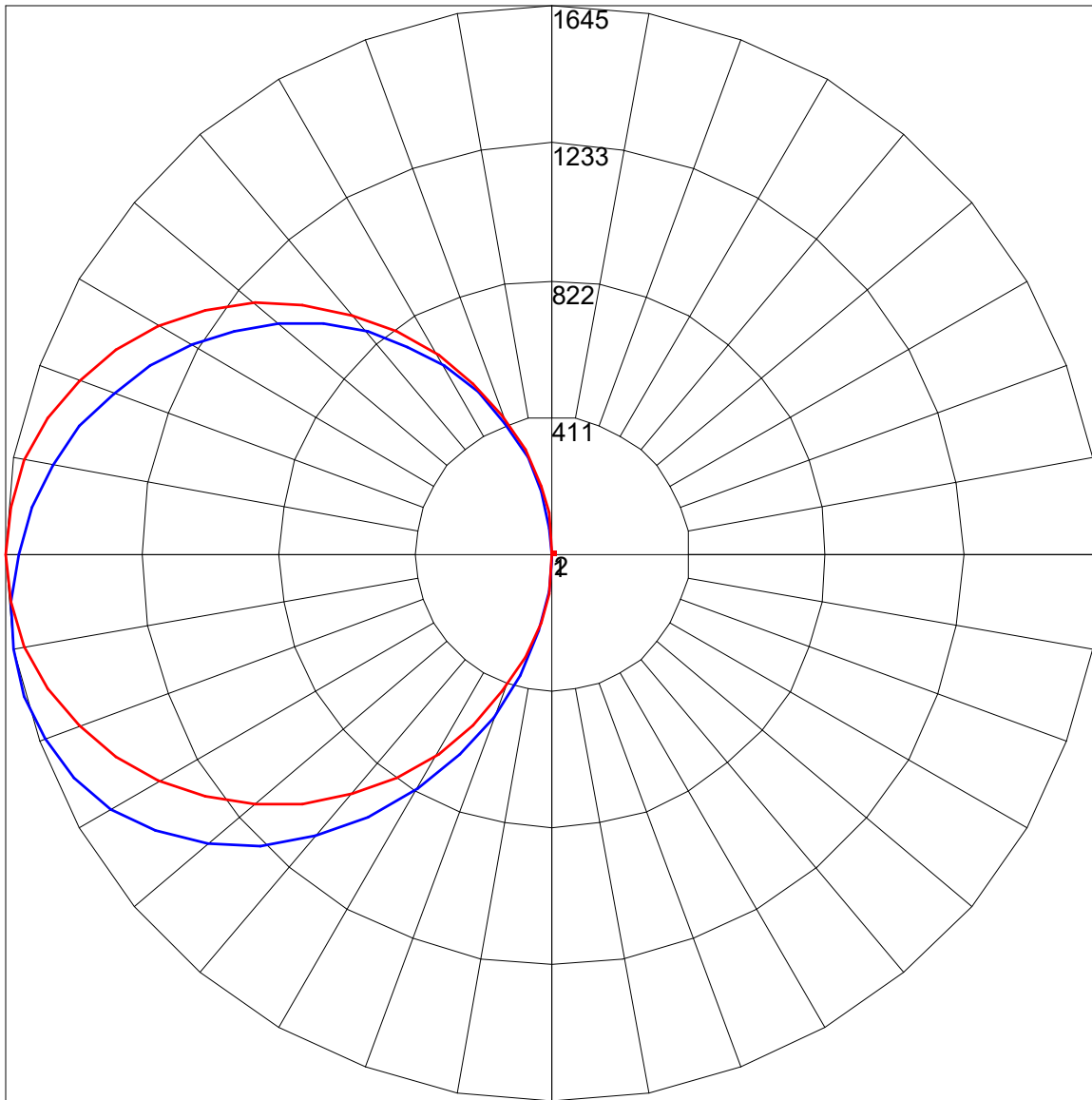
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_HA_WH.IES

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	93	86	80	74	85	79	73	68	66	62	58	54	51	48	43	41	39	33
2	82	72	63	56	75	66	58	51	54	48	43	44	39	35	35	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	25	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	25	20	17	13
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	24	50	37	29	22	31	24	18	25	19	15	19	15	11	8
7	51	36	27	21	46	33	25	19	28	21	16	22	17	12	17	13	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	30	21	15	39	27	19	14	22	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 1644.648 Located At Horizontal Angle = 180, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)