

IES Report

ZipTwo® | 707 | 85° Asymmetric | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-A1-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	62	62	65	66
Total Lumens, 4' rail length (1219mm)	2437	2437	2565	2591
Lumens per foot (305mm)	609	609	641	648
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	94	94	94	95

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_359_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-359-A1-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, 85° white 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	2565
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
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	147764	114421	37103
55	138512	101211	31570
65	120099	84347	27272
75	101598	70029	23035
85	101933	64220	15985

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

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	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305
5	904.290	903.915	901.530	897.885	892.860	886.560	878.775	869.595	859.155	848.220
10	1133.385	1131.120	1125.345	1116.915	1104.975	1089.885	1071.525	1049.895	1025.625	1000.110
15	1351.920	1349.145	1340.850	1328.145	1310.175	1286.400	1258.365	1224.420	1187.070	1146.585
20	1536.000	1532.220	1522.665	1506.315	1483.680	1454.265	1418.310	1375.050	1325.265	1271.700
25	1664.490	1659.975	1649.535	1631.805	1607.040	1573.710	1533.225	1483.560	1427.355	1361.970
30	1729.875	1726.350	1715.040	1696.560	1671.795	1635.450	1590.810	1538.385	1477.530	1404.480
35	1730.130	1726.980	1716.300	1697.820	1671.915	1635.825	1589.175	1533.600	1469.100	1391.265
40	1667.265	1663.740	1653.930	1636.335	1609.680	1573.590	1525.815	1468.215	1400.325	1321.485
45	1546.800	1543.290	1533.480	1516.125	1490.850	1454.265	1405.095	1346.505	1277.100	1197.765
50	1377.810	1374.795	1365.615	1349.520	1324.125	1288.035	1241.520	1181.790	1111.755	1035.180
55	1176.135	1173.750	1166.325	1151.490	1127.100	1093.155	1049.400	992.940	928.815	859.410
60	962.385	959.745	953.085	940.260	918.375	888.075	849.225	799.935	744.735	686.145
65	751.395	749.520	744.105	732.915	714.435	689.535	657.345	617.370	573.480	527.715
70	557.265	555.885	550.725	542.055	527.715	508.095	483.585	455.415	422.475	388.530
75	389.280	388.020	384.255	377.460	366.780	352.320	334.200	313.590	291.210	268.320
80	245.190	244.050	241.290	236.505	228.720	218.910	206.835	193.515	179.175	164.715
85	131.520	130.890	128.880	125.610	120.585	114.420	107.250	99.465	91.290	82.860
90	54.060	53.685	52.560	50.550	47.910	44.640	41.115	36.960	32.940	29.040
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	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305
5	836.025	822.825	809.610	795.660	781.080	766.740	751.905	737.070	722.100	707.265
10	971.565	941.895	909.960	877.005	844.575	811.875	778.185	745.110	713.550	681.495
15	1100.700	1053.420	1003.245	950.565	899.145	847.455	793.770	744.735	697.200	649.800
20	1210.965	1148.355	1079.445	1008.660	938.865	869.220	797.295	732.540	671.175	610.830
25	1289.295	1212.855	1129.230	1042.350	956.850	871.605	784.470	706.260	633.705	564.180
30	1322.865	1236.870	1141.815	1042.605	944.655	845.445	750.135	663.630	584.295	510.360
35	1303.380	1210.215	1108.245	1001.490	897.510	792.645	693.180	603.915	524.445	451.140
40	1227.945	1132.260	1027.140	919.635	816.030	712.920	616.365	531.735	457.170	389.535
45	1104.840	1010.040	909.330	807.105	710.280	616.605	529.470	454.035	388.395	329.925
50	949.050	862.545	774.030	680.730	597.240	518.415	443.595	380.850	325.650	277.380
55	783.960	706.140	631.440	558.765	487.605	425.490	365.010	313.455	268.065	228.840
60	624.405	561.795	502.065	440.325	391.920	340.245	293.085	252.855	216.765	185.715

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

CANDELA TABULATION - (Cont.)

65	481.200	433.665	388.650	345.150	302.520	263.790	229.470	198.285	170.625	146.985
70	354.825	320.250	287.055	254.745	225.315	196.785	171.510	148.365	127.500	110.775
75	244.425	220.920	198.540	176.415	156.165	136.545	118.200	102.345	88.260	76.320
80	149.880	135.165	121.080	107.250	94.560	82.110	70.545	60.225	51.180	44.265
85	74.820	66.645	58.590	51.045	44.010	37.215	30.675	25.275	20.625	17.730
90	25.155	21.255	17.475	13.830	10.695	7.545	4.905	2.760	1.635	1.515
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**

	100	105	110	115	120	125	130	135	140	145
0	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305	724.305
5	693.060	679.350	665.775	653.445	640.875	629.820	619.755	609.945	601.275	593.730
10	652.320	624.660	598.005	572.985	550.845	530.235	511.500	494.400	479.805	466.860
15	607.680	568.455	531.870	498.795	469.995	444.105	421.470	400.470	383.490	368.910
20	558.525	509.985	468.615	430.515	398.715	371.430	347.415	327.165	311.205	297.240
25	505.455	452.775	408.390	369.660	338.235	312.210	290.700	272.100	258.135	247.200
30	449.505	396.195	352.815	315.975	287.310	264.300	246.060	231.105	220.035	210.735
35	392.175	341.880	302.265	270.585	245.565	226.320	210.990	198.915	190.110	183.075
40	336.225	291.840	257.760	231.105	209.985	194.265	181.935	172.515	165.600	160.440
45	284.295	246.825	218.400	196.530	179.175	166.605	156.795	149.505	144.225	140.070
50	239.535	208.470	185.085	166.605	153.270	142.710	135.165	129.630	125.730	122.475
55	198.285	174.015	154.035	139.695	130.005	121.215	114.930	110.265	106.755	104.115
60	161.445	142.335	128.625	115.800	106.875	100.080	95.055	91.290	88.515	86.130
65	131.640	113.535	101.475	92.550	85.380	80.100	76.065	72.930	70.410	68.655
70	97.065	85.755	76.950	70.155	64.755	60.735	57.585	54.945	53.190	51.555
75	66.765	58.965	53.190	48.660	44.760	42.120	39.855	38.100	36.720	35.715
80	38.730	34.200	31.065	28.545	26.400	24.900	23.640	22.635	21.885	21.255
85	15.585	13.950	12.825	11.820	11.190	10.560	10.185	9.810	9.675	9.435
90	1.515	1.260	1.125	1.005	1.005	0.885	0.750	0.750	0.750	0.750
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

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	724.305	724.305	724.305	724.305	724.305	724.305	724.305
5	586.935	581.160	576.885	572.730	570.345	568.710	568.080
10	455.415	446.490	438.825	432.780	428.760	426.120	425.235
15	356.205	346.530	338.235	332.325	328.050	325.410	324.645
20	285.795	277.125	270.075	264.930	261.150	259.140	258.270
25	238.020	230.850	225.315	221.175	218.535	217.020	216.270
30	203.700	198.405	194.130	191.115	189.105	187.845	187.605
35	177.795	173.775	170.625	168.240	166.860	166.095	165.720
40	156.165	153.270	151.005	149.370	148.365	147.735	147.615
45	137.055	134.790	133.275	131.895	131.145	130.890	130.770
50	119.955	118.320	117.060	116.055	115.545	115.305	115.170
55	102.105	100.710	99.705	98.835	98.325	98.070	98.070
60	84.375	83.115	82.230	81.480	80.970	80.730	80.730
65	67.020	66.015	65.130	64.500	64.005	63.870	63.870
70	50.415	49.545	48.780	48.285	47.910	47.655	47.535
75	34.830	34.200	33.570	33.195	32.940	32.820	32.685
80	20.745	20.370	19.995	19.740	19.485	19.485	19.365
85	9.300	9.180	8.925	8.925	8.925	8.805	8.805
90	0.750	0.750	0.750	0.750	0.750	0.750	0.750
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	288.87	N.A.	11.30
0-30	657.97	N.A.	25.70
0-40	1134.43	N.A.	44.20
0-60	2048.64	N.A.	79.90
0-80	2506.19	N.A.	97.70
0-90	2560.87	N.A.	99.80
10-90	2490.7	N.A.	97.10
20-40	845.56	N.A.	33.00
20-50	1339.72	N.A.	52.20
40-70	1209.07	N.A.	47.10
60-80	457.55	N.A.	17.80
70-80	162.69	N.A.	6.30
80-90	54.68	N.A.	2.10
90-110	4.09	N.A.	0.20
90-120	4.09	N.A.	0.20
90-130	4.09	N.A.	0.20
90-150	4.09	N.A.	0.20
90-180	4.09	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	2564.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.17
10-20	218.70
20-30	369.10
30-40	476.46
40-50	494.17
50-60	420.04
60-70	294.86
70-80	162.69
80-90	54.68
90-100	4.09
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

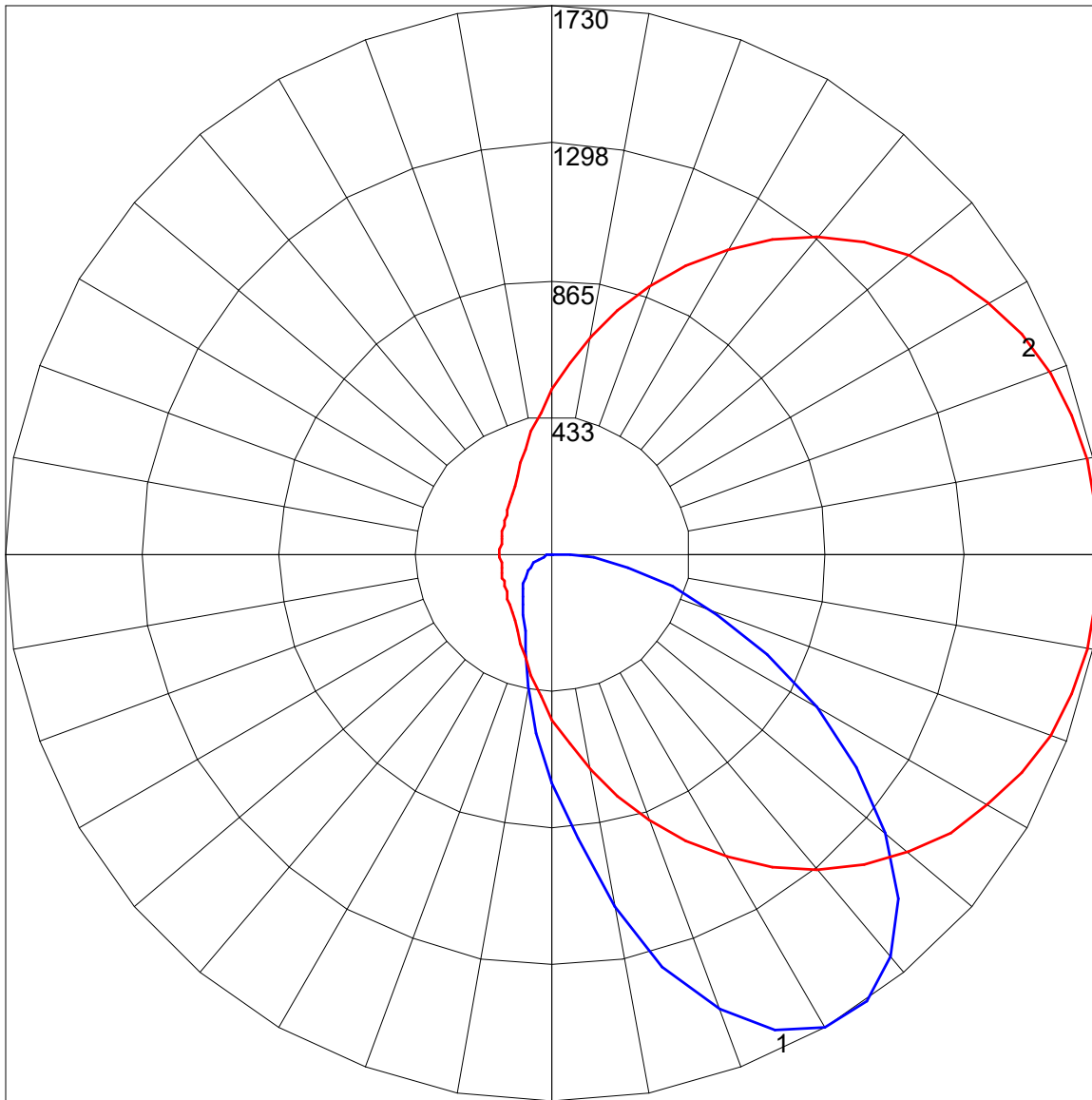
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

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	83
2	99	90	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 = 1730.13 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.)