

IES Report

ZipTwo® | 707 | Square 3536/30, Soft Wash | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-A3-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	79	79
Total Lumens, 4' rail length (1219mm)	2934	3027	3089	3119
Lumens per foot (305mm)	734	757	772	780
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	95	95	95	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_A3_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L092011502 (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-359-A3-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,

[MORE] square 3536/30, soft wash black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3088
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18257	17961	17348
55	17440	17133	16546
65	16592	16263	15559
75	15759	15306	14459
85	14892	14385	13188

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A3_BL.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	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985
5	980.235	979.740	979.230	978.600	976.965	975.585	973.830	971.565	969.180	966.285
10	1025.505	1025.130	1023.870	1021.860	1019.085	1015.830	1011.165	1006.260	1000.740	994.455
15	1059.450	1058.955	1056.810	1053.915	1049.640	1043.865	1037.205	1029.780	1021.350	1011.930
20	1081.590	1080.825	1078.065	1073.790	1068.255	1060.455	1051.530	1041.600	1030.410	1017.585
25	1090.890	1089.375	1086.480	1081.200	1074.285	1065.240	1054.170	1041.600	1027.770	1011.795
30	1086.870	1085.730	1081.830	1076.175	1068.000	1057.320	1044.615	1030.275	1014.060	995.835
35	1070.775	1069.380	1065.360	1058.700	1049.640	1037.700	1023.750	1007.520	989.160	968.790
40	1043.355	1041.975	1037.070	1030.410	1020.720	1008.030	992.310	974.835	954.720	932.580
45	1005.885	1004.505	999.735	992.055	981.870	968.040	951.570	932.580	911.340	887.820
50	959.865	958.110	953.325	945.285	934.470	919.755	902.790	883.170	860.910	836.145
55	906.555	904.920	899.640	891.720	880.410	865.695	848.340	827.595	803.580	778.185
60	847.710	846.075	841.050	832.995	821.190	806.100	788.235	767.115	742.845	716.565
65	784.590	782.715	777.555	769.500	757.935	742.470	724.365	702.495	677.850	650.940
70	718.200	716.325	711.165	702.615	690.795	675.210	656.850	634.965	609.945	582.660
75	648.555	646.665	641.625	632.700	620.385	605.175	586.815	564.930	539.655	511.500
80	576.375	574.620	569.205	560.655	548.340	533.250	515.145	495.525	470.505	442.845
85	502.950	501.810	497.280	488.730	476.925	461.445	442.590	421.590	397.575	371.055
90	429.510	427.875	422.475	414.300	402.735	387.525	369.030	348.420	325.155	299.385
95	352.320	350.685	345.645	337.470	326.280	311.580	294.480	273.855	251.595	226.320
100	275.610	274.230	269.205	261.405	250.845	236.760	220.035	201.060	180.060	156.045
105	200.670	199.170	194.640	187.350	177.285	164.205	148.500	130.890	111.270	89.895
110	128.505	127.245	122.970	116.310	106.995	94.425	80.340	64.125	46.140	26.280
115	59.850	58.725	54.825	48.660	39.990	28.920	16.350	5.025	1.005	0.750
120	2.520	2.265	1.515	1.005	0.750	0.750	0.630	0.630	0.630	0.630
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	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985
5	963.270	960.120	956.730	952.830	949.305	945.405	941.520	937.365	932.970	929.070
10	987.780	980.370	972.195	964.275	955.965	947.040	938.115	929.190	920.265	911.340
15	1000.980	990.045	977.850	965.025	952.320	939.000	925.170	911.460	898.005	883.545
20	1003.245	988.410	972.450	955.470	938.370	920.520	902.160	884.175	866.445	847.335
25	994.455	976.215	956.475	935.475	914.475	892.470	870.090	848.085	826.335	803.325
30	974.700	953.460	930.315	906.180	881.910	856.140	829.980	804.330	779.055	752.655
35	945.165	921.525	895.365	868.335	840.795	811.875	782.460	754.290	725.745	695.700
40	906.810	880.650	852.495	822.570	792.645	761.205	729.270	697.830	666.780	634.335
45	860.415	832.755	802.200	770.760	738.450	704.745	670.305	637.110	603.540	568.830
50	807.345	778.305	746.625	713.055	679.485	643.770	607.680	572.355	537.270	501.315
55	749.385	719.340	686.010	651.315	616.230	580.395	541.800	506.970	470.880	433.290
60	686.895	655.710	622.020	586.185	550.215	513.000	476.790	439.320	400.980	363.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

65	620.640	588.075	554.625	515.520	485.220	446.370	407.265	369.420	330.810	292.470
70	553.110	514.890	487.605	452.145	414.180	375.330	337.470	299.625	261.405	224.940
75	484.965	452.025	417.195	380.610	344.265	305.790	268.440	231.480	194.010	158.685
80	413.295	380.850	346.410	310.575	274.605	237.765	201.300	164.205	128.250	95.805
85	341.505	309.810	276.240	241.665	207.210	171.375	135.540	105.120	68.145	35.715
90	269.835	240.285	208.095	174.900	142.080	108.255	74.310	41.625	10.440	0.630
95	198.795	170.745	140.445	109.260	78.465	46.530	14.340	0.630	0.630	0.630
100	130.515	104.235	75.945	46.650	17.850	0.885	0.630	0.630	0.630	0.630
105	65.385	40.740	14.580	1.125	0.630	0.630	0.630	0.630	0.630	0.630
110	6.420	0.750	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
115	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
120	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
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	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985	935.985
5	925.035	920.640	917.115	913.605	909.960	906.555	903.420	900.270	897.750	895.245
10	902.655	893.475	885.180	877.005	868.710	861.675	854.625	848.220	842.565	837.030
15	870.345	857.025	844.065	831.990	819.930	808.605	798.675	788.865	780.195	772.395
20	829.860	812.250	795.660	779.685	764.850	750.390	736.560	723.870	712.920	702.495
25	781.575	760.830	740.580	721.605	702.870	685.395	668.910	653.445	639.870	627.420
30	728.010	703.245	680.235	657.855	636.225	616.365	597.120	579.645	564.180	549.600
35	668.040	640.620	614.970	590.205	566.070	543.810	522.555	503.580	486.225	470.130
40	604.290	574.365	546.330	519.795	493.890	469.755	446.865	425.865	407.130	389.910
45	536.895	505.215	475.785	447.240	419.460	393.930	369.795	347.415	327.915	309.690
50	467.865	434.550	403.620	373.935	345.015	317.865	293.340	270.330	250.470	232.230
55	398.835	364.515	332.580	302.145	272.475	245.055	220.290	197.025	176.655	157.800
60	327.915	293.085	259.890	229.590	200.805	173.895	149.130	125.355	105.495	86.760
65	257.505	224.190	191.250	160.185	131.640	105.750	80.595	57.720	37.725	19.620
70	189.615	156.795	124.485	95.310	65.880	39.990	16.725	3.015	2.520	2.760
75	125.235	92.925	61.485	32.685	7.290	0.000	0.000	0.000	0.000	0.000
80	63.750	31.935	6.030	1.380	1.515	0.000	0.000	0.000	0.000	0.000
85	7.545	1.005	1.005	1.260	1.380	0.000	0.000	0.000	0.000	0.000
90	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
95	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
100	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
105	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
110	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
115	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
120	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
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
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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	935.985	935.985	935.985	935.985	935.985	935.985	935.985
5	893.100	891.345	889.830	888.450	887.700	887.190	886.950
10	832.500	828.600	825.210	822.690	820.800	819.795	819.300
15	765.735	759.945	754.920	750.900	748.260	746.625	745.860
20	693.180	685.770	679.095	674.205	670.680	668.415	667.665
25	616.605	607.425	599.505	593.475	589.200	586.815	585.675
30	537.150	526.710	517.650	511.125	506.340	503.325	502.440
35	456.300	444.735	434.925	427.245	421.965	418.575	417.450
40	374.940	362.625	351.930	343.890	338.235	334.590	333.450
45	294.105	281.145	269.955	261.525	255.750	252.360	251.220
50	216.135	202.815	191.490	182.940	176.790	173.010	171.750
55	141.450	128.130	117.435	108.630	102.600	98.700	97.575
60	70.785	57.465	46.275	37.470	31.440	27.915	26.655
65	6.915	3.390	3.525	3.525	3.525	3.525	3.525
70	3.015	3.015	3.270	3.270	3.390	3.525	3.525
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.630	0.630	0.630	0.630	0.630	0.630	0.630
95	0.630	0.630	0.630	0.630	0.630	0.630	0.630
100	0.630	0.630	0.630	0.630	0.630	0.630	0.630
105	0.630	0.630	0.630	0.630	0.630	0.630	0.630
110	0.630	0.630	0.630	0.630	0.630	0.630	0.630
115	0.630	0.630	0.630	0.630	0.630	0.630	0.630
120	0.630	0.630	0.630	0.630	0.630	0.630	0.630
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
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	342.68	N.A.	11.10
0-30	726.19	N.A.	23.50
0-40	1186.12	N.A.	38.40
0-60	2097.45	N.A.	67.90
0-80	2726.57	N.A.	88.30
0-90	2915.75	N.A.	94.40
10-90	2827.05	N.A.	91.50
20-40	843.44	N.A.	27.30
20-50	1319.31	N.A.	42.70
40-70	1268.21	N.A.	41.10
60-80	629.13	N.A.	20.40
70-80	272.25	N.A.	8.80
80-90	189.18	N.A.	6.10
90-110	161.76	N.A.	5.20
90-120	172.22	N.A.	5.60
90-130	172.40	N.A.	5.60
90-150	172.40	N.A.	5.60
90-180	172.40	N.A.	5.60
110-180	10.63	N.A.	0.30
0-180	3088.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.69
10-20	253.98
20-30	383.51
30-40	459.93
40-50	475.87
50-60	435.46
60-70	356.88
70-80	272.25
80-90	189.18
90-100	112.20
100-110	49.57
110-120	10.46
120-130	0.17
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

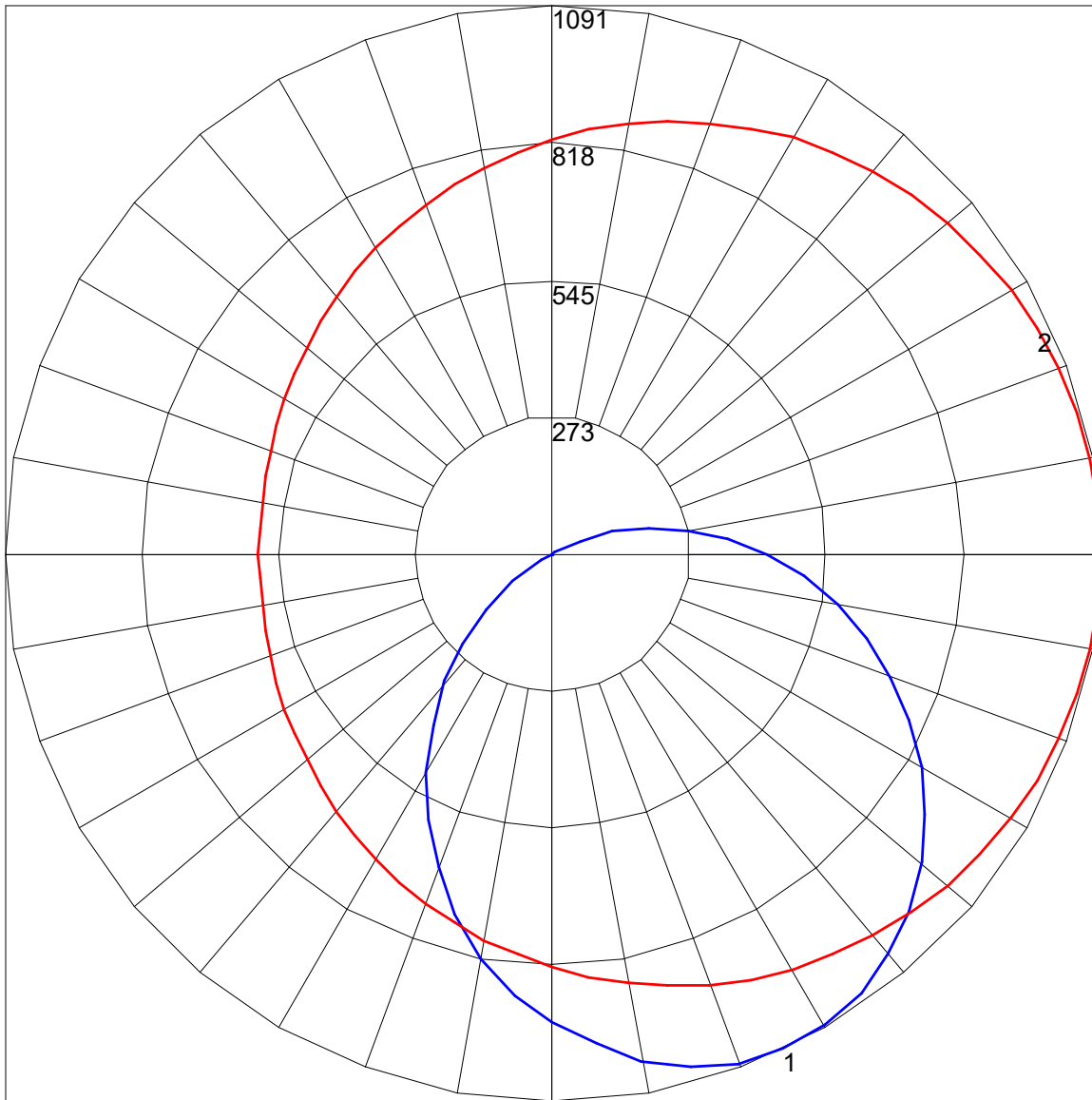
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A3_BL.IES

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	105	100	95	90	102	97	92	88	92	88	84	87	84	81	82	80	77	75
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	64	61
3	87	75	66	59	84	73	65	59	69	62	57	66	60	55	63	58	53	51
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	56	50	46	43
5	73	59	50	43	70	58	49	42	55	47	41	52	46	41	50	44	40	37
6	67	53	44	37	65	52	43	37	50	42	36	47	41	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	38	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	40	33	28	38	32	28	26
9	54	40	32	26	52	40	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 1090.89 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)