

IES Report

ZipTwo® | 707 | Square 3536, Single Side Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-SA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	71	72
Total Lumens, 4' rail length (1219mm)	995	1026	1047	1058
Lumens per foot (305mm)	249	257	262	264
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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_LO_359_SA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011217 (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-LO-359-SA-WH

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

[MORE] square 3536, single side diffuse lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	14.89
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	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_SA_WH.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	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735
5	0.420	0.420	0.460	0.460	0.460	0.505	0.545	0.545	0.545	0.585
10	0.250	0.295	0.335	0.335	0.335	0.335	0.375	0.375	0.420	0.420
15	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335
20	0.335	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.335
25	0.420	0.460	0.460	0.460	0.460	0.460	0.460	0.420	0.420	0.375
30	0.585	0.585	0.585	0.585	0.545	0.545	0.545	0.505	0.460	0.460
35	0.670	0.670	0.670	0.670	0.670	0.630	0.630	0.545	0.545	0.545
40	0.840	0.840	0.795	0.795	0.755	0.715	0.715	0.670	0.630	0.585
45	0.920	0.920	0.920	0.920	0.880	0.840	0.795	0.755	0.715	0.670
50	1.005	1.005	1.005	1.005	0.965	0.965	0.880	0.880	0.795	0.755
55	1.090	1.130	1.130	1.090	1.090	1.050	0.965	0.965	0.880	0.795
60	1.260	1.215	1.215	1.175	1.175	1.130	1.050	1.050	0.965	0.880
65	1.340	1.300	1.300	1.260	1.215	1.215	1.130	1.090	1.050	0.920
70	1.340	1.340	1.340	1.340	1.300	1.260	1.215	1.130	1.050	1.005
75	1.425	1.425	1.425	1.425	1.385	1.300	1.300	1.215	1.130	1.050
80	1.510	1.510	1.510	1.465	1.425	1.385	1.300	1.215	1.175	1.090
85	1.510	1.510	1.510	1.510	1.465	1.425	1.385	1.300	1.215	1.130
90	1.595	1.595	1.595	1.550	1.510	1.465	1.385	1.300	1.260	1.175
95	1.595	1.595	1.595	1.595	1.550	1.465	1.465	1.385	1.300	1.175
100	1.675	1.675	1.675	1.635	1.595	1.550	1.465	1.385	1.340	1.260
105	1.760	1.760	1.720	1.675	1.635	1.635	1.550	1.465	1.385	1.300
110	1.760	1.760	1.760	1.760	1.720	1.635	1.550	1.510	1.425	1.340
115	1.845	1.800	1.800	1.760	1.720	1.675	1.635	1.550	1.465	1.385
120	1.845	1.845	1.800	1.760	1.720	1.720	1.635	1.550	1.465	1.385
125	1.845	1.845	1.800	1.760	1.720	1.675	1.635	1.550	1.465	1.425
130	1.760	1.760	1.760	1.720	1.720	1.635	1.595	1.550	1.425	1.385
135	1.760	1.720	1.675	1.675	1.635	1.595	1.550	1.465	1.465	1.425
140	1.675	1.635	1.635	1.595	1.595	1.510	1.510	1.510	1.465	1.425
145	1.595	1.595	1.550	1.550	1.465	1.465	1.510	1.550	1.510	1.510
150	1.510	1.510	1.510	1.385	1.425	1.465	1.510	1.595	1.595	1.595
155	1.425	1.425	1.385	1.300	1.385	1.465	1.550	1.595	1.595	1.550
160	1.340	1.340	1.175	1.215	1.340	1.510	1.595	1.550	1.510	1.465
165	1.175	1.050	1.090	1.215	1.465	1.510	1.595	1.720	1.885	2.140
170	1.425	1.675	1.720	2.305	2.430	2.640	2.810	3.020	3.145	3.310
175	2.180	2.430	2.850	3.225	3.225	3.310	3.310	3.355	3.395	3.395
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	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735
5	0.585	0.755	1.090	1.635	2.390	3.355	4.650	6.120	7.630	9.265
10	0.460	0.505	0.505	0.545	0.585	0.715	1.845	4.190	7.585	11.400
15	0.335	0.420	0.420	0.505	0.505	0.505	0.630	2.475	7.335	13.245
20	0.335	0.335	0.335	0.375	0.420	0.505	0.545	1.260	7.085	14.965
25	0.375	0.375	0.375	0.335	0.375	0.460	0.505	0.630	6.875	16.765
30	0.460	0.420	0.375	0.375	0.375	0.375	0.460	0.545	6.455	18.190
35	0.460	0.460	0.460	0.375	0.375	0.375	0.420	0.505	6.035	19.110
40	0.545	0.505	0.460	0.460	0.375	0.375	0.375	0.505	6.075	20.370
45	0.585	0.545	0.505	0.460	0.420	0.375	0.375	0.460	5.535	21.210
50	0.670	0.585	0.545	0.505	0.460	0.375	0.375	0.420	4.570	22.005
55	0.755	0.670	0.585	0.505	0.460	0.420	0.375	0.375	3.980	23.260
60	0.795	0.715	0.630	0.585	0.505	0.420	0.375	0.375	3.310	23.595

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_SA_WH.IES

CANDELA TABULATION - (Cont.)

65	0.840	0.755	0.670	0.585	0.505	0.460	0.375	0.375	2.765	23.805
70	0.920	0.840	0.755	0.630	0.545	0.505	0.420	0.375	2.140	23.930
75	0.920	0.840	0.755	0.670	0.585	0.505	0.420	0.375	1.510	23.805
80	1.005	0.880	0.755	0.670	0.585	0.505	0.420	0.375	1.675	22.840
85	1.005	0.920	0.795	0.670	0.585	0.505	0.420	0.375	1.260	22.380
90	1.050	0.920	0.840	0.715	0.585	0.505	0.460	0.375	0.840	21.795
95	1.090	1.005	0.840	0.755	0.670	0.585	0.505	0.420	0.630	21.880
100	1.175	1.005	0.920	0.755	0.670	0.585	0.505	0.460	0.630	21.210
105	1.175	1.090	0.965	0.840	0.755	0.630	0.545	0.505	0.715	20.160
110	1.260	1.130	1.005	0.840	0.755	0.670	0.630	0.585	0.880	18.020
115	1.260	1.130	1.050	0.920	0.795	0.755	0.670	0.670	1.050	14.125
120	1.300	1.215	1.050	0.965	0.880	0.755	0.715	0.880	1.215	10.980
125	1.300	1.215	1.090	1.005	0.920	0.840	0.795	1.090	1.385	8.885
130	1.300	1.215	1.130	1.050	0.965	0.920	0.965	1.300	1.510	7.460
135	1.340	1.300	1.215	1.090	1.005	0.965	1.215	1.465	1.635	6.330
140	1.425	1.385	1.260	1.175	1.050	1.130	1.510	1.635	1.800	5.405
145	1.510	1.385	1.300	1.175	1.130	1.465	1.720	1.760	1.885	4.445
150	1.510	1.425	1.340	1.340	1.550	2.055	2.010	2.055	2.220	4.360
155	1.510	1.425	1.550	1.800	2.220	2.345	2.305	2.390	2.555	4.315
160	1.595	1.800	2.180	2.555	2.640	2.555	2.600	2.685	2.850	4.025
165	2.475	2.810	2.975	2.935	2.850	2.850	2.935	3.020	3.100	3.645
170	3.355	3.310	3.225	3.185	3.225	3.225	3.310	3.395	3.480	3.690
175	3.355	3.355	3.395	3.435	3.480	3.565	3.645	3.645	3.730	3.770
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	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735	7.735
5	10.895	12.490	14.085	15.715	17.185	18.650	20.035	21.250	22.465	23.555
10	15.005	18.650	22.295	25.735	29.215	32.400	35.540	38.645	41.325	43.840
15	18.905	24.475	30.220	35.835	41.200	46.395	51.805	56.580	61.025	65.215
20	22.635	30.220	38.015	45.850	53.310	60.645	67.855	75.025	81.395	87.515
25	26.280	35.835	45.850	55.955	65.720	75.315	85.205	94.300	102.770	110.900
30	29.550	42.790	53.145	65.550	77.620	89.735	101.425	113.165	123.890	134.075
35	32.690	46.060	60.395	74.645	89.775	104.025	118.065	132.065	145.015	157.885
40	35.125	50.925	67.310	83.865	101.470	118.025	134.410	151.385	166.100	180.010
45	40.615	55.240	73.600	91.995	111.945	130.680	149.500	167.105	185.375	201.640
50	41.410	59.640	79.300	99.710	121.755	142.545	163.290	183.365	202.855	221.545
55	42.250	63.160	84.410	106.455	130.470	153.190	170.875	197.865	218.990	239.485
60	43.675	65.930	88.475	112.825	136.970	161.150	184.580	209.600	232.235	254.280
65	44.890	68.235	92.710	117.565	142.960	167.730	193.090	219.325	243.090	266.185
70	45.770	69.195	94.680	120.495	147.740	171.630	201.470	227.120	251.680	275.445
75	46.230	70.285	96.440	122.970	151.720	173.685	204.950	231.985	257.005	282.025
80	45.515	70.830	97.360	124.355	153.565	174.940	207.505	235.630	260.650	284.290
85	45.305	70.790	97.655	124.770	154.195	178.630	208.345	236.510	261.450	285.045
90	44.760	71.000	96.985	124.100	153.400	174.775	207.255	234.330	259.270	283.285
95	44.720	69.995	95.770	122.635	151.555	173.560	204.740	231.440	255.955	279.555
100	43.715	68.525	93.885	121.040	147.780	171.755	199.795	226.660	250.720	273.645
105	42.415	65.930	92.125	117.775	143.715	169.450	195.060	220.375	243.635	265.890
110	40.905	63.665	88.225	112.955	139.485	164.420	188.900	212.535	234.790	256.125
115	39.605	61.025	84.495	108.135	133.530	157.210	175.275	202.940	224.775	244.390
120	36.840	57.460	80.050	102.390	126.325	148.660	170.500	192.335	212.160	230.515
125	27.745	50.670	71.880	92.585	115.510	137.640	159.350	175.400	197.995	215.050
130	23.220	43.675	63.750	82.315	102.350	121.755	141.580	162.535	181.690	198.120
135	18.105	37.930	54.865	72.425	90.025	106.750	123.765	141.535	159.015	176.785

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_SA_WH.IES

CANDELA TABULATION - (Cont.)

140	14.630	28.920	46.230	62.070	78.000	92.250	106.790	121.715	136.215	151.220
145	12.030	21.585	36.380	49.875	65.050	81.225	92.670	103.355	114.925	127.035
150	10.855	18.315	27.790	40.195	51.885	65.760	79.800	89.355	97.025	104.865
155	9.220	15.715	22.505	30.470	40.825	49.875	60.565	72.255	79.715	86.045
160	7.585	12.910	18.315	24.015	29.170	35.665	43.880	51.090	58.385	63.915
165	5.825	9.430	13.955	18.105	22.215	25.820	29.465	32.985	36.715	41.995
170	4.525	6.285	8.930	11.985	14.670	17.270	19.280	21.710	23.805	25.065
175	3.940	4.275	4.945	5.785	6.830	8.215	9.390	10.520	11.275	12.155
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	7.735	7.735	7.735	7.735	7.735	7.735	7.735
5	24.475	25.400	26.030	26.530	26.865	27.035	27.075
10	46.145	48.075	49.665	51.005	51.845	52.350	52.475
15	68.985	72.175	74.895	77.075	78.500	79.340	79.550
20	92.960	97.570	101.595	104.695	106.710	107.925	108.385
25	118.190	124.395	129.800	134.035	136.885	138.645	139.150
30	143.340	151.220	158.050	163.375	166.560	168.990	169.660
35	166.850	177.790	185.840	192.420	197.030	200.045	201.010
40	192.965	204.780	214.465	222.555	228.255	231.860	232.945
45	216.475	230.055	241.540	250.425	256.880	261.110	262.285
50	238.690	253.400	266.185	276.115	283.495	288.145	289.695
55	258.095	274.230	288.525	299.630	307.885	312.875	314.510
60	274.230	291.455	306.585	318.700	327.205	332.445	334.375
65	287.180	305.330	321.170	333.790	342.545	347.910	349.880
70	297.200	315.850	331.735	344.770	354.240	359.900	361.785
75	303.400	322.345	338.440	351.390	360.735	366.690	368.575
80	305.790	325.405	341.585	354.620	364.005	369.960	371.760
85	306.420	326.035	342.380	354.870	364.130	370.125	372.180
90	305.120	323.685	339.990	352.395	361.575	367.400	369.245
95	300.930	319.285	335.255	347.700	356.590	362.160	364.050
100	294.560	312.455	328.005	340.370	348.960	354.325	356.085
105	286.050	303.400	318.530	330.560	338.945	344.180	345.775
110	275.490	292.085	306.210	317.775	326.285	331.440	333.035
115	262.745	278.505	291.920	302.815	310.695	315.765	317.275
120	247.365	262.035	275.360	285.380	292.590	297.450	298.835
125	230.640	244.725	256.585	265.680	272.470	276.955	278.210
130	212.790	225.195	236.090	244.515	250.635	254.700	255.830
135	192.755	203.945	213.750	221.420	226.830	230.390	231.440
140	166.015	181.270	189.860	196.695	201.470	204.490	205.535
145	139.735	153.065	166.225	171.380	175.445	178.045	178.795
150	114.545	124.605	135.965	146.565	150.085	152.265	152.895
155	90.530	97.825	106.040	116.810	123.095	124.770	125.315
160	68.445	71.420	77.200	84.245	94.555	96.690	97.235
165	45.850	48.285	49.330	53.230	58.385	65.800	66.135
170	26.235	27.285	27.035	26.030	28.125	32.735	37.635
175	12.740	12.910	13.120	12.320	11.105	11.275	15.845
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_SA_WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8.98	N.A.	0.90
0-30	29.49	N.A.	2.80
0-40	68.35	N.A.	6.50
0-60	212.55	N.A.	20.30
0-80	429.19	N.A.	41.00
0-90	548.75	N.A.	52.40
10-90	547.49	N.A.	52.30
20-40	59.37	N.A.	5.70
20-50	120.33	N.A.	11.50
40-70	246.29	N.A.	23.50
60-80	216.64	N.A.	20.70
70-80	114.56	N.A.	10.90
80-90	119.56	N.A.	11.40
90-110	225.58	N.A.	21.50
90-120	318.98	N.A.	30.50
90-130	392.82	N.A.	37.50
90-150	476.70	N.A.	45.50
90-180	498.58	N.A.	47.60
110-180	273.00	N.A.	26.10
0-180	1047.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.26
10-20	7.71
20-30	20.51
30-40	38.86
40-50	60.96
50-60	83.25
60-70	102.08
70-80	114.56
80-90	119.56
90-100	117.25
100-110	108.32
110-120	93.40
120-130	73.84
130-140	52.07
140-150	31.80
150-160	15.92
160-170	5.27
170-180	0.69

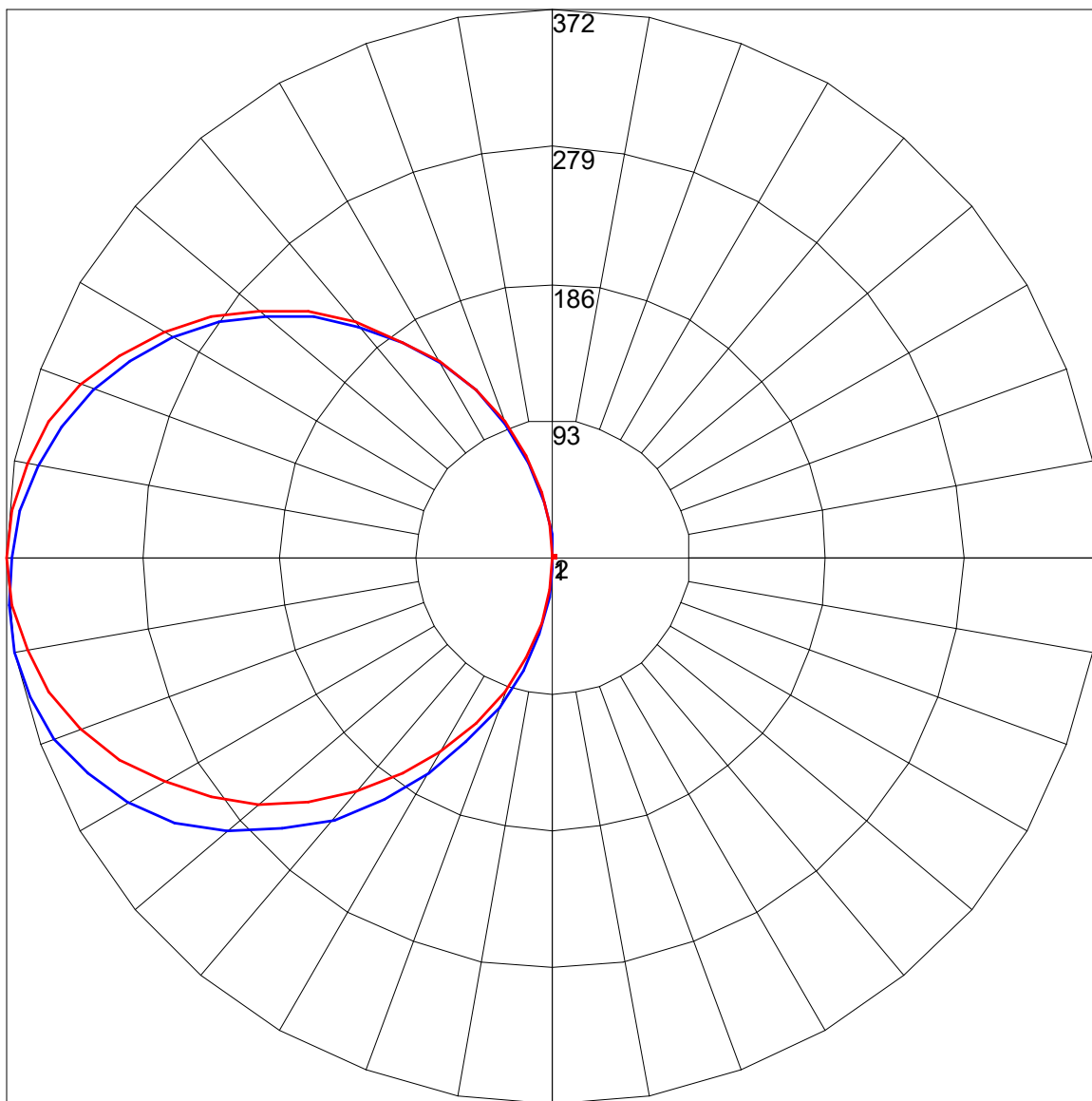
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_SA_WH.IES

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	71	71	71	58	58	58	52
1	92	86	79	74	85	79	73	68	65	61	57	53	50	47	42	40	37	32
2	82	71	63	56	74	65	58	51	54	48	43	43	39	35	34	30	27	22
3	73	61	51	44	66	56	47	40	46	39	33	36	31	27	28	24	21	16
4	66	53	43	35	60	48	39	32	39	32	27	31	26	21	24	20	16	12
5	60	46	36	29	54	42	33	27	34	27	22	27	22	17	21	16	13	9
6	55	41	31	24	50	37	29	22	31	24	18	24	19	14	19	14	11	8
7	50	36	27	21	46	33	25	19	27	21	16	22	16	12	17	12	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	14	10	15	11	8	5
9	43	29	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	20	14	10	16	11	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 372.18 Located At Horizontal Angle = 180, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)