

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	66	68	70	70
Total Lumens, 4' rail length (1219mm)	978	1009	1030	1040
Lumens per foot (305mm)	245	252	257	260
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_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-LO-359-A3-BL

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

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

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1029
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	14.89
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	6086	5987	5783
55	5813	5711	5515
65	5531	5421	5186
75	5253	5102	4820
85	4964	4795	4396

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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	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995
5	326.745	326.580	326.410	326.200	325.655	325.195	324.610	323.855	323.060	322.095
10	341.835	341.710	341.290	340.620	339.695	338.610	337.055	335.420	333.580	331.485
15	353.150	352.985	352.270	351.305	349.880	347.955	345.735	343.260	340.450	337.310
20	360.530	360.275	359.355	357.930	356.085	353.485	350.510	347.200	343.470	339.195
25	363.630	363.125	362.160	360.400	358.095	355.080	351.390	347.200	342.590	337.265
30	362.290	361.910	360.610	358.725	356.000	352.440	348.205	343.425	338.020	331.945
35	356.925	356.460	355.120	352.900	349.880	345.900	341.250	335.840	329.720	322.930
40	347.785	347.325	345.690	343.470	340.240	336.010	330.770	324.945	318.240	310.860
45	335.295	334.835	333.245	330.685	327.290	322.680	317.190	310.860	303.780	295.940
50	319.955	319.370	317.775	315.095	311.490	306.585	300.930	294.390	286.970	278.715
55	302.185	301.640	299.880	297.240	293.470	288.565	282.780	275.865	267.860	259.395
60	282.570	282.025	280.350	277.665	273.730	268.700	262.745	255.705	247.615	238.855
65	261.530	260.905	259.185	256.500	252.645	247.490	241.455	234.165	225.950	216.980
70	239.400	238.775	237.055	234.205	230.265	225.070	218.950	211.655	203.315	194.220
75	216.185	215.555	213.875	210.900	206.795	201.725	195.605	188.310	179.885	170.500
80	192.125	191.540	189.735	186.885	182.780	177.750	171.715	165.175	156.835	147.615
85	167.650	167.270	165.760	162.910	158.975	153.815	147.530	140.530	132.525	123.685
90	143.170	142.625	140.825	138.100	134.245	129.175	123.010	116.140	108.385	99.795
95	117.440	116.895	115.215	112.490	108.760	103.860	98.160	91.285	83.865	75.440
100	91.870	91.410	89.735	87.135	83.615	78.920	73.345	67.020	60.020	52.015
105	66.890	66.390	64.880	62.450	59.095	54.735	49.500	43.630	37.090	29.965
110	42.835	42.415	40.990	38.770	35.665	31.475	26.780	21.375	15.380	8.760
115	19.950	19.575	18.275	16.220	13.330	9.640	5.450	1.675	0.335	0.250
120	0.840	0.755	0.505	0.335	0.250	0.250	0.210	0.210	0.210	0.210
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	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995
5	321.090	320.040	318.910	317.610	316.435	315.135	313.840	312.455	310.990	309.690
10	329.260	326.790	324.065	321.425	318.655	315.680	312.705	309.730	306.755	303.780
15	333.660	330.015	325.950	321.675	317.440	313.000	308.390	303.820	299.335	294.515
20	334.415	329.470	324.150	318.490	312.790	306.840	300.720	294.725	288.815	282.445
25	331.485	325.405	318.825	311.825	304.825	297.490	290.030	282.695	275.445	267.775
30	324.900	317.820	310.105	302.060	293.970	285.380	276.660	268.110	259.685	250.885
35	315.055	307.175	298.455	289.445	280.265	270.625	260.820	251.430	241.915	231.900
40	302.270	293.550	284.165	274.190	264.215	253.735	243.090	232.610	222.260	211.445
45	286.805	277.585	267.400	256.920	246.150	234.915	223.435	212.370	201.180	189.610
50	269.115	259.435	248.875	237.685	226.495	214.590	202.560	190.785	179.090	167.105
55	249.795	239.780	228.670	217.105	205.410	193.465	180.600	168.990	156.960	144.430
60	228.965	218.570	207.340	195.395	183.405	171.000	158.930	146.440	133.660	121.000

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CANDELA TABULATION - (Cont.)

65	206.880	196.025	184.875	171.840	161.740	148.790	135.755	123.140	110.270	97.490
70	184.370	171.630	162.535	150.715	138.060	125.110	112.490	99.875	87.135	74.980
75	161.655	150.675	139.065	126.870	114.755	101.930	89.480	77.160	64.670	52.895
80	137.765	126.950	115.470	103.525	91.535	79.255	67.100	54.735	42.750	31.935
85	113.835	103.270	92.080	80.555	69.070	57.125	45.180	35.040	22.715	11.905
90	89.945	80.095	69.365	58.300	47.360	36.085	24.770	13.875	3.480	0.210
95	66.265	56.915	46.815	36.420	26.155	15.510	4.780	0.210	0.210	0.210
100	43.505	34.745	25.315	15.550	5.950	0.295	0.210	0.210	0.210	0.210
105	21.795	13.580	4.860	0.375	0.210	0.210	0.210	0.210	0.210	0.210
110	2.140	0.250	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
115	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
120	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
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	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995	311.995
5	308.345	306.880	305.705	304.535	303.320	302.185	301.140	300.090	299.250	298.415
10	300.885	297.825	295.060	292.335	289.570	287.225	284.875	282.740	280.855	279.010
15	290.115	285.675	281.355	277.330	273.310	269.535	266.225	262.955	260.065	257.465
20	276.620	270.750	265.220	259.895	254.950	250.130	245.520	241.290	237.640	234.165
25	260.525	253.610	246.860	240.535	234.290	228.465	222.970	217.815	213.290	209.140
30	242.670	234.415	226.745	219.285	212.075	205.455	199.040	193.215	188.060	183.200
35	222.680	213.540	204.990	196.735	188.690	181.270	174.185	167.860	162.075	156.710
40	201.430	191.455	182.110	173.265	164.630	156.585	148.955	141.955	135.710	129.970
45	178.965	168.405	158.595	149.080	139.820	131.310	123.265	115.805	109.305	103.230
50	155.955	144.850	134.540	124.645	115.005	105.955	97.780	90.110	83.490	77.410
55	132.945	121.505	110.860	100.715	90.825	81.685	73.430	65.675	58.885	52.600
60	109.305	97.695	86.630	76.530	66.935	57.965	49.710	41.785	35.165	28.920
65	85.835	74.730	63.750	53.395	43.880	35.250	26.865	19.240	12.575	6.540
70	63.205	52.265	41.495	31.770	21.960	13.330	5.575	1.005	0.840	0.920
75	41.745	30.975	20.495	10.895	2.430	0.000	0.000	0.000	0.000	0.000
80	21.250	10.645	2.010	0.460	0.505	0.000	0.000	0.000	0.000	0.000
85	2.515	0.335	0.335	0.420	0.460	0.000	0.000	0.000	0.000	0.000
90	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
95	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
100	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
105	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
110	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
115	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
120	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
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	311.995	311.995	311.995	311.995	311.995	311.995	311.995
5	297.700	297.115	296.610	296.150	295.900	295.730	295.650
10	277.500	276.200	275.070	274.230	273.600	273.265	273.100
15	255.245	253.315	251.640	250.300	249.420	248.875	248.620
20	231.060	228.590	226.365	224.735	223.560	222.805	222.555
25	205.535	202.475	199.835	197.825	196.400	195.605	195.225
30	179.050	175.570	172.550	170.375	168.780	167.775	167.480
35	152.100	148.245	144.975	142.415	140.655	139.525	139.150
40	124.980	120.875	117.310	114.630	112.745	111.530	111.150
45	98.035	93.715	89.985	87.175	85.250	84.120	83.740
50	72.045	67.605	63.830	60.980	58.930	57.670	57.250
55	47.150	42.710	39.145	36.210	34.200	32.900	32.525
60	23.595	19.155	15.425	12.490	10.480	9.305	8.885
65	2.305	1.130	1.175	1.175	1.175	1.175	1.175
70	1.005	1.005	1.090	1.090	1.130	1.175	1.175
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	0.210	0.210	0.210	0.210	0.210	0.210	0.210
95	0.210	0.210	0.210	0.210	0.210	0.210	0.210
100	0.210	0.210	0.210	0.210	0.210	0.210	0.210
105	0.210	0.210	0.210	0.210	0.210	0.210	0.210
110	0.210	0.210	0.210	0.210	0.210	0.210	0.210
115	0.210	0.210	0.210	0.210	0.210	0.210	0.210
120	0.210	0.210	0.210	0.210	0.210	0.210	0.210
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	114.23	N.A.	11.10
0-30	242.06	N.A.	23.50
0-40	395.37	N.A.	38.40
0-60	699.15	N.A.	67.90
0-80	908.86	N.A.	88.30
0-90	971.92	N.A.	94.40
10-90	942.35	N.A.	91.50
20-40	281.15	N.A.	27.30
20-50	439.77	N.A.	42.70
40-70	422.74	N.A.	41.10
60-80	209.71	N.A.	20.40
70-80	90.75	N.A.	8.80
80-90	63.06	N.A.	6.10
90-110	53.92	N.A.	5.20
90-120	57.41	N.A.	5.60
90-130	57.47	N.A.	5.60
90-150	57.47	N.A.	5.60
90-180	57.47	N.A.	5.60
110-180	3.54	N.A.	0.30
0-180	1029.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.56
10-20	84.66
20-30	127.84
30-40	153.31
40-50	158.62
50-60	145.15
60-70	118.96
70-80	90.75
80-90	63.06
90-100	37.40
100-110	16.52
110-120	3.49
120-130	0.06
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

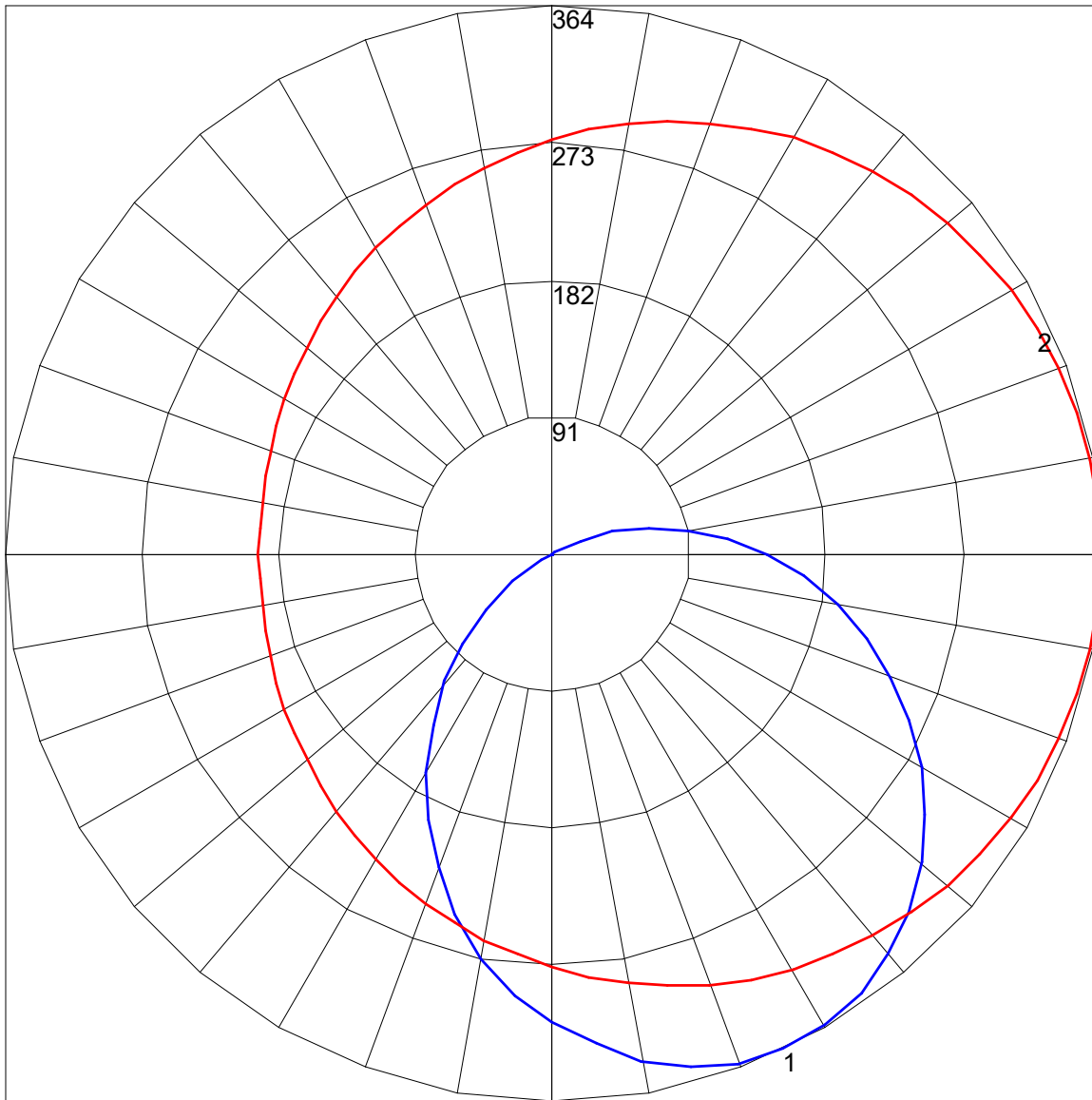
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	67	60	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	43	55	47	42	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	37	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 = 363.63 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.)