

IES Report

ZipTwo® | 707 | Micro 3508, 85° Asymmetric | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-A1-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	31	32	32	33
Total Lumens, 4' rail length (1219mm)	452	466	476	480
Lumens per foot (305mm)	113	116	119	120
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	94	94	94	94

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_A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911529 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-359-A1-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, micro 3508, 85° asymmetric black lens,

[MORE] low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.08
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.86
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	38149	25068	3768
55	35410	20612	2685
65	31003	15682	2218
75	27281	12514	1914
85	30858	12571	1364

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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	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510
5	137.135	136.760	136.255	135.335	133.995	132.150	130.055	127.665	125.065	122.300
10	201.180	200.675	198.955	196.315	192.500	187.890	182.485	176.115	169.115	162.410
15	276.035	275.025	272.095	267.400	260.820	252.730	243.175	231.900	219.785	206.415
20	349.045	347.620	343.635	337.475	328.675	317.065	303.190	287.645	270.250	251.390
25	406.965	405.290	400.890	393.220	382.700	369.455	353.695	334.290	311.825	287.895
30	440.245	438.735	434.000	426.705	415.850	401.265	383.915	362.415	337.855	310.905
35	448.375	446.655	442.380	434.545	423.645	408.770	391.040	368.365	342.545	314.090
40	432.280	430.855	426.665	419.035	407.135	392.590	374.360	351.305	325.155	296.195
45	399.340	397.620	393.595	385.005	373.435	358.390	339.695	316.730	290.620	262.410
50	353.065	351.350	346.615	338.610	326.745	311.450	292.000	269.915	245.565	218.780
55	300.675	299.505	294.640	286.555	275.155	259.685	240.955	220.080	197.785	175.025
60	246.445	245.100	240.490	232.905	222.175	207.715	190.995	172.550	153.105	132.820
65	193.970	192.880	188.770	182.235	172.260	160.440	146.150	130.095	113.625	98.115
70	146.860	145.855	142.500	136.970	128.880	118.525	107.085	94.555	81.940	70.330
75	104.530	103.650	101.050	96.735	90.530	82.820	74.395	65.175	56.160	47.950
80	68.485	67.900	65.970	62.950	58.595	53.230	47.485	41.365	35.415	30.095
85	39.815	39.480	38.225	36.210	33.490	30.135	26.615	22.840	19.365	16.220
90	18.525	18.275	17.560	16.430	14.965	13.205	11.400	9.555	7.840	6.370
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	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510
5	119.030	115.760	112.490	108.760	105.325	101.805	98.160	94.765	91.200	87.175
10	154.530	146.315	137.725	129.175	120.915	112.535	104.695	97.110	89.690	82.355
15	192.755	178.210	163.250	149.500	135.755	122.090	109.685	97.530	86.505	76.280
20	230.180	209.645	188.145	165.930	148.115	129.005	111.400	95.895	82.150	69.365
25	261.740	235.335	207.630	180.265	156.040	132.315	110.185	91.620	75.570	60.815
30	280.685	249.965	217.480	185.505	156.835	129.885	105.365	84.870	67.100	52.140
35	282.195	248.245	214.295	175.865	150.295	120.875	95.390	74.730	57.335	43.085
40	265.385	230.390	196.985	165.090	133.450	105.285	82.150	62.910	47.110	35.125
45	232.655	200.925	169.785	139.230	111.905	87.050	66.975	50.630	39.440	27.705
50	191.620	164.255	136.970	111.360	88.770	68.780	52.140	39.985	29.340	21.710
55	151.050	127.620	105.410	85.205	67.815	52.390	39.860	30.260	22.800	17.140
60	113.415	95.560	78.670	63.580	50.715	39.775	30.640	23.260	17.855	13.580

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CANDELA TABULATION - (Cont.)

65	82.985	69.740	57.250	46.355	38.645	29.550	23.010	17.895	13.875	10.770
70	59.265	49.415	40.950	33.490	26.910	21.545	16.935	13.410	10.520	8.255
75	40.320	33.530	27.790	22.675	18.440	14.835	11.735	9.305	7.335	5.825
80	25.190	20.870	17.270	14.085	11.315	9.055	7.125	5.615	4.360	3.395
85	13.410	10.940	8.885	7.040	5.575	4.275	3.225	2.390	1.760	1.300
90	5.030	3.940	2.935	2.180	1.510	1.005	0.545	0.295	0.170	0.085
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. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510	90.510
5	83.990	80.930	78.000	75.360	72.635	70.330	68.190	66.095	64.420	62.825
10	76.115	70.245	64.795	60.020	55.410	51.595	48.200	45.180	42.585	40.405
15	67.520	59.555	52.560	46.650	41.410	37.135	33.530	30.470	27.870	25.820
20	58.805	49.375	43.210	35.920	30.640	26.570	23.305	20.665	18.525	16.850
25	49.580	42.040	33.025	27.200	22.635	19.195	16.390	14.290	12.740	11.485
30	42.205	32.400	25.400	20.455	16.765	14.000	11.860	10.270	9.135	8.255
35	33.025	25.400	19.655	15.590	12.575	10.435	8.885	7.755	6.915	6.245
40	26.365	19.825	15.215	12.070	9.680	8.130	7.000	6.120	5.535	5.030
45	20.665	15.550	11.985	9.600	7.795	6.580	5.740	5.030	4.570	4.190
50	16.345	12.405	9.725	7.920	6.495	5.575	4.860	4.315	3.900	3.605
55	12.995	10.100	8.130	6.665	5.535	4.780	4.235	3.730	3.395	3.100
60	10.605	8.385	6.830	5.700	4.820	4.150	3.645	3.225	2.935	2.685
65	8.590	6.915	5.660	4.695	4.025	3.480	3.020	2.685	2.430	2.180
70	6.620	5.405	4.445	3.730	3.145	2.725	2.345	2.095	1.845	1.675
75	4.650	3.770	3.145	2.640	2.180	1.930	1.675	1.510	1.385	1.175
80	2.725	2.180	1.800	1.510	1.260	1.090	0.965	0.840	0.755	0.670
85	1.005	0.840	0.715	0.585	0.505	0.420	0.375	0.375	0.335	0.335
90	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.125	0.170	0.170
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
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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	90.510	90.510	90.510	90.510	90.510	90.510	90.510
5	61.570	60.355	59.430	58.760	58.175	57.840	57.755
10	38.560	37.050	35.835	34.870	34.200	33.865	33.700
15	24.140	22.760	21.710	20.870	20.370	20.035	19.865
20	15.510	14.460	13.705	13.120	12.740	12.530	12.405
25	10.480	9.810	9.220	8.845	8.550	8.425	8.385
30	7.585	7.085	6.665	6.415	6.205	6.120	6.120
35	5.785	5.405	5.155	4.945	4.820	4.780	4.695
40	4.650	4.400	4.190	4.025	3.940	3.900	3.855
45	3.940	3.690	3.520	3.435	3.355	3.270	3.270
50	3.355	3.185	3.020	2.935	2.850	2.850	2.850
55	2.890	2.725	2.600	2.515	2.430	2.430	2.345
60	2.430	2.305	2.180	2.095	2.010	2.010	2.010
65	2.010	1.845	1.760	1.675	1.635	1.595	1.595
70	1.510	1.425	1.340	1.260	1.260	1.175	1.175
75	1.090	1.005	0.920	0.920	0.840	0.840	0.840
80	0.630	0.585	0.545	0.505	0.505	0.505	0.505
85	0.295	0.295	0.250	0.250	0.250	0.250	0.250
90	0.170	0.170	0.170	0.170	0.170	0.170	0.170
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
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	43.12	N.A.	9.10
0-30	110.26	N.A.	23.20
0-40	203.85	N.A.	42.90
0-60	380.07	N.A.	79.90
0-80	463.25	N.A.	97.40
0-90	474.41	N.A.	99.80
10-90	465.13	N.A.	97.80
20-40	160.73	N.A.	33.80
20-50	257.78	N.A.	54.20
40-70	229.78	N.A.	48.30
60-80	83.18	N.A.	17.50
70-80	29.62	N.A.	6.20
80-90	11.16	N.A.	2.30
90-110	1.10	N.A.	0.20
90-120	1.10	N.A.	0.20
90-130	1.10	N.A.	0.20
90-150	1.10	N.A.	0.20
90-180	1.10	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	475.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	9.28
10-20	33.84
20-30	67.14
30-40	93.59
40-50	97.05
50-60	79.18
60-70	53.56
70-80	29.62
80-90	11.16
90-100	1.10
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

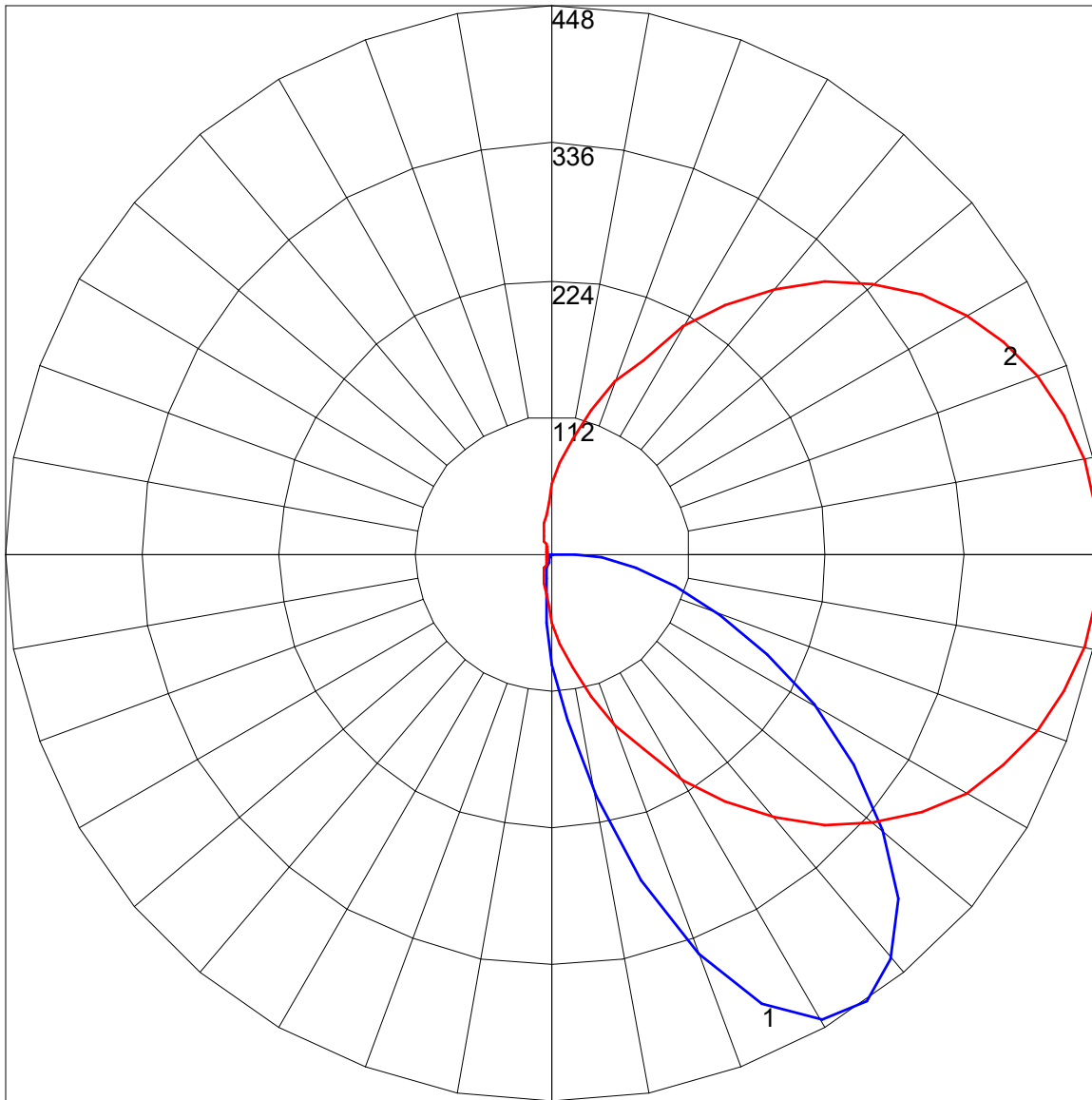
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	34	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	25
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 448.375 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.)