

IES Report

ZipTwo® | 707 | Micro 3508, 85° Asymmetric | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-A1-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	36	37	38	38
Total Lumens, 4' rail length (1219mm)	524	541	552	552
Lumens per foot (305mm)	131	135	138	138
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	82	82	82	82

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_35_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-35-A1-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 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	552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
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	44252	29079	4370
55	41076	23910	3115
65	35964	18191	2573
75	31646	14517	2221
85	35795	14582	1583

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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	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992
5	159.077	158.642	158.056	156.989	155.434	153.294	150.864	148.091	145.075	141.868
10	233.369	232.783	230.788	227.725	223.300	217.952	211.683	204.293	196.173	188.396
15	320.201	319.029	315.630	310.184	302.551	293.167	282.083	269.004	254.951	239.441
20	404.892	403.239	398.617	391.471	381.263	367.795	351.700	333.668	313.490	291.612
25	472.079	470.136	465.032	456.135	443.932	428.568	410.286	387.776	361.717	333.958
30	510.684	508.933	503.440	494.978	482.386	465.467	445.341	420.401	391.912	360.650
35	520.115	518.120	513.161	504.072	491.428	474.173	453.606	427.303	397.352	364.344
40	501.445	499.792	494.931	486.081	472.277	455.404	434.258	407.514	377.180	343.586
45	463.234	461.239	456.570	446.606	433.185	415.732	394.046	367.407	337.119	304.396
50	409.555	407.566	402.073	392.788	379.024	361.282	338.720	313.101	284.855	253.785
55	348.783	347.426	341.782	332.404	319.180	301.235	279.508	255.293	229.431	203.029
60	285.876	284.316	278.968	270.170	257.723	240.949	221.554	200.158	177.602	154.071
65	225.005	223.741	218.973	211.393	199.822	186.110	169.534	150.910	131.805	113.813
70	170.358	169.192	165.300	158.885	149.501	137.489	124.219	109.684	95.050	81.583
75	121.255	120.234	117.218	112.213	105.015	96.071	86.298	75.603	65.146	55.622
80	79.443	78.764	76.525	73.022	67.970	61.747	55.083	47.983	41.081	34.910
85	46.185	45.797	44.341	42.004	38.848	34.957	30.873	26.494	22.463	18.815
90	21.489	21.199	20.370	19.059	17.359	15.318	13.224	11.084	9.094	7.389
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	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992
5	138.075	134.282	130.488	126.162	122.177	118.094	113.866	109.927	105.792	101.123
10	179.255	169.725	159.761	149.843	140.261	130.541	121.446	112.648	104.040	95.532
15	223.596	206.724	189.370	173.420	157.476	141.624	127.235	113.135	100.346	88.485
20	267.009	243.188	218.248	192.479	171.813	149.646	129.224	111.238	95.294	80.463
25	303.618	272.989	240.851	209.107	181.006	153.485	127.815	106.279	87.661	70.545
30	325.595	289.959	252.277	215.186	181.929	150.667	122.223	98.449	77.836	60.482
35	327.346	287.964	248.582	204.003	174.342	140.215	110.652	86.687	66.509	49.979
40	307.847	267.252	228.503	191.504	154.802	122.131	95.294	72.976	54.648	40.745
45	269.880	233.073	196.951	161.507	129.810	100.978	77.691	58.731	45.750	32.138
50	222.279	190.536	158.885	129.178	102.973	79.785	60.482	46.383	34.034	25.184
55	175.218	148.039	122.276	98.838	78.665	60.772	46.238	35.102	26.448	19.882
60	131.561	110.850	91.257	73.753	58.829	46.139	35.542	26.982	20.712	15.753

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CANDELA TABULATION - (Cont.)

65	96.263	80.898	66.410	53.772	44.828	34.278	26.692	20.758	16.095	12.493
70	68.747	57.321	47.502	38.848	31.216	24.992	19.645	15.556	12.203	9.576
75	46.771	38.895	32.236	26.303	21.390	17.209	13.613	10.794	8.509	6.757
80	29.220	24.209	20.033	16.339	13.125	10.504	8.265	6.513	5.058	3.938
85	15.556	12.690	10.307	8.166	6.467	4.959	3.741	2.772	2.042	1.508
90	5.835	4.570	3.405	2.529	1.752	1.166	0.632	0.342	0.197	0.099
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	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992
5	97.428	93.879	90.480	87.418	84.257	81.583	79.100	76.670	74.727	72.877
10	88.293	81.484	75.162	69.623	64.276	59.850	55.912	52.409	49.399	46.870
15	78.323	69.084	60.970	54.114	48.036	43.077	38.895	35.345	32.329	29.951
20	68.214	57.275	50.124	41.667	35.542	30.821	27.034	23.971	21.489	19.546
25	57.513	48.766	38.309	31.552	26.257	22.266	19.012	16.576	14.778	13.323
30	48.958	37.584	29.464	23.728	19.447	16.240	13.758	11.913	10.597	9.576
35	38.309	29.464	22.800	18.084	14.587	12.105	10.307	8.996	8.021	7.244
40	30.583	22.997	17.649	14.001	11.229	9.431	8.120	7.099	6.421	5.835
45	23.971	18.038	13.903	11.136	9.042	7.633	6.658	5.835	5.301	4.860
50	18.960	14.390	11.281	9.187	7.534	6.467	5.638	5.005	4.524	4.182
55	15.074	11.716	9.431	7.731	6.421	5.545	4.913	4.327	3.938	3.596
60	12.302	9.727	7.923	6.612	5.591	4.814	4.228	3.741	3.405	3.115
65	9.964	8.021	6.566	5.446	4.669	4.037	3.503	3.115	2.819	2.529
70	7.679	6.270	5.156	4.327	3.648	3.161	2.720	2.430	2.140	1.943
75	5.394	4.373	3.648	3.062	2.529	2.239	1.943	1.752	1.607	1.363
80	3.161	2.529	2.088	1.752	1.462	1.264	1.119	0.974	0.876	0.777
85	1.166	0.974	0.829	0.679	0.586	0.487	0.435	0.435	0.389	0.389
90	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.145	0.197	0.197
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

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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	104.992	104.992	104.992	104.992	104.992	104.992	104.992
5	71.421	70.012	68.939	68.162	67.483	67.094	66.996
10	44.730	42.978	41.569	40.449	39.672	39.283	39.092
15	28.002	26.402	25.184	24.209	23.629	23.241	23.043
20	17.992	16.774	15.898	15.219	14.778	14.535	14.390
25	12.157	11.380	10.695	10.260	9.918	9.773	9.727
30	8.799	8.219	7.731	7.441	7.198	7.099	7.099
35	6.711	6.270	5.980	5.736	5.591	5.545	5.446
40	5.394	5.104	4.860	4.669	4.570	4.524	4.472
45	4.570	4.280	4.083	3.985	3.892	3.793	3.793
50	3.892	3.695	3.503	3.405	3.306	3.306	3.306
55	3.352	3.161	3.016	2.917	2.819	2.819	2.720
60	2.819	2.674	2.529	2.430	2.332	2.332	2.332
65	2.332	2.140	2.042	1.943	1.897	1.850	1.850
70	1.752	1.653	1.554	1.462	1.462	1.363	1.363
75	1.264	1.166	1.067	1.067	0.974	0.974	0.974
80	0.731	0.679	0.632	0.586	0.586	0.586	0.586
85	0.342	0.342	0.290	0.290	0.290	0.290	0.290
90	0.197	0.197	0.197	0.197	0.197	0.197	0.197
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	50.02	N.A.	9.10
0-30	127.90	N.A.	23.20
0-40	236.47	N.A.	42.90
0-60	440.88	N.A.	79.90
0-80	537.37	N.A.	97.40
0-90	550.32	N.A.	99.80
10-90	539.55	N.A.	97.80
20-40	186.45	N.A.	33.80
20-50	299.02	N.A.	54.20
40-70	266.54	N.A.	48.30
60-80	96.49	N.A.	17.50
70-80	34.36	N.A.	6.20
80-90	12.94	N.A.	2.30
90-110	1.28	N.A.	0.20
90-120	1.28	N.A.	0.20
90-130	1.28	N.A.	0.20
90-150	1.28	N.A.	0.20
90-180	1.28	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	551.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10.77
10-20	39.25
20-30	77.89
30-40	108.56
40-50	112.58
50-60	91.84
60-70	62.13
70-80	34.36
80-90	12.94
90-100	1.28
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

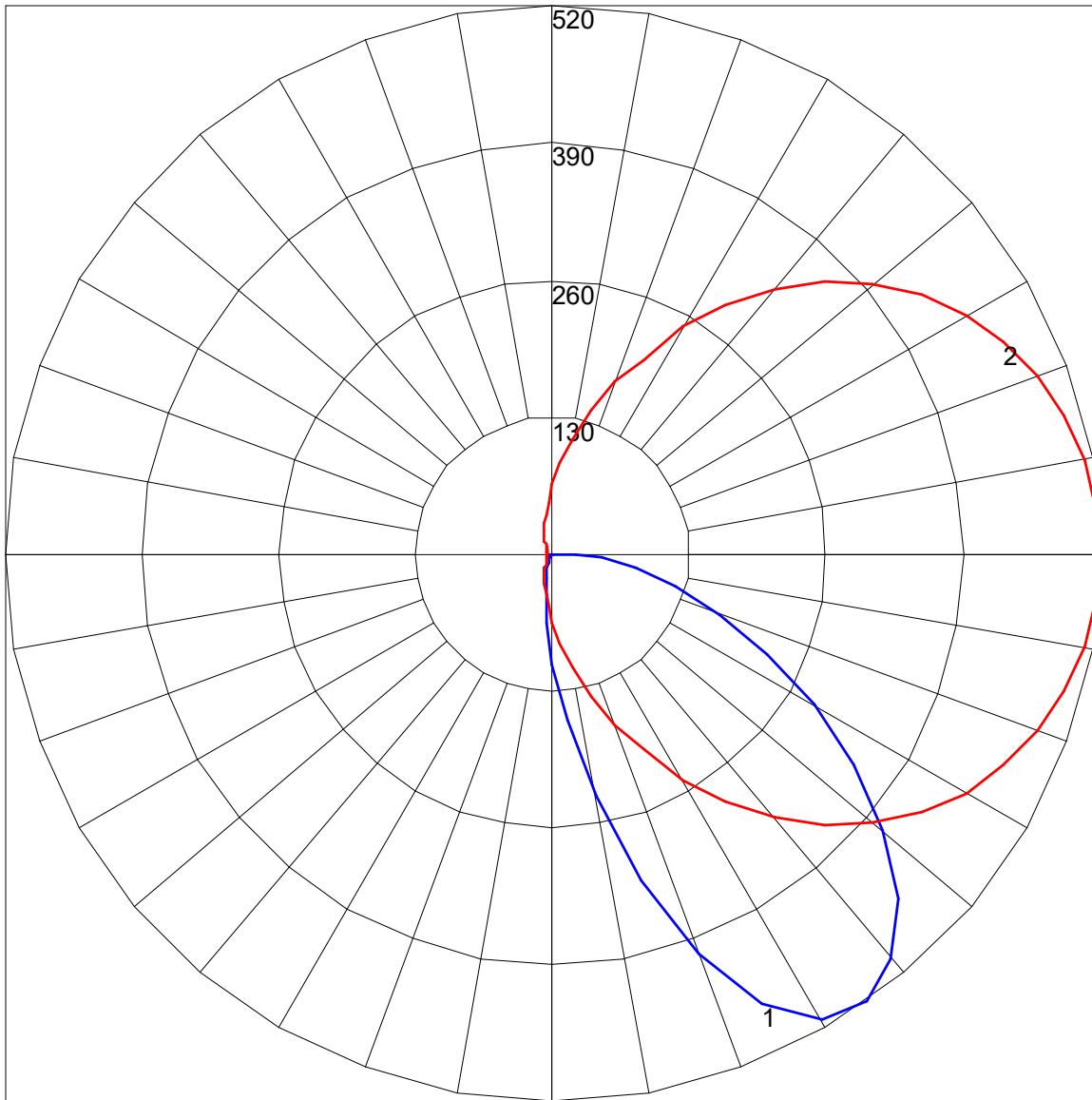
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	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	35	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 = 520.115 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.)