

IES Report

ZipTwo® | 707 | Square 3554, Single Side Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-JA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	98
Total Lumens, 4' rail length (1219mm)	1381	1425	1454	1454
Lumens per foot (305mm)	345	356	363	363
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_JA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011209 (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-35-JA-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,

[MORE] square 3554, 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	1454
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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

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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	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
5	0.679	0.679	0.731	0.731	0.731	0.829	0.829	0.829	0.829	0.876
10	0.290	0.342	0.389	0.389	0.389	0.435	0.487	0.487	0.534	0.586
15	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389
20	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
25	0.586	0.586	0.632	0.632	0.586	0.586	0.586	0.534	0.534	0.534
30	0.777	0.777	0.731	0.731	0.731	0.731	0.679	0.632	0.632	0.632
35	0.876	0.922	0.922	0.876	0.876	0.829	0.829	0.777	0.731	0.679
40	1.067	1.067	1.067	1.021	1.021	1.021	0.922	0.876	0.829	0.777
45	1.264	1.218	1.218	1.218	1.166	1.119	1.067	1.021	0.974	0.876
50	1.363	1.363	1.363	1.311	1.311	1.218	1.218	1.119	1.067	0.974
55	1.462	1.508	1.508	1.462	1.409	1.409	1.311	1.264	1.166	1.067
60	1.653	1.653	1.607	1.607	1.554	1.508	1.409	1.363	1.264	1.166
65	1.752	1.752	1.699	1.699	1.653	1.607	1.508	1.462	1.363	1.264
70	1.850	1.850	1.850	1.798	1.752	1.699	1.607	1.554	1.462	1.363
75	1.943	1.943	1.943	1.897	1.850	1.798	1.699	1.607	1.508	1.409
80	2.042	2.042	2.042	1.995	1.943	1.897	1.798	1.699	1.607	1.462
85	2.140	2.140	2.088	2.088	1.995	1.995	1.897	1.798	1.653	1.554
90	2.140	2.140	2.140	2.088	2.088	1.995	1.897	1.798	1.699	1.554
95	2.140	2.140	2.140	2.088	2.088	1.995	1.897	1.850	1.699	1.554
100	2.239	2.239	2.187	2.140	2.140	2.042	1.995	1.897	1.752	1.653
105	2.239	2.239	2.239	2.239	2.140	2.088	2.042	1.897	1.798	1.699
110	2.332	2.332	2.239	2.239	2.239	2.140	2.088	1.995	1.897	1.752
115	2.332	2.332	2.285	2.239	2.239	2.140	2.088	1.995	1.897	1.798
120	2.332	2.332	2.239	2.239	2.239	2.140	2.088	2.042	1.943	1.752
125	2.332	2.285	2.239	2.239	2.187	2.140	2.042	1.995	1.897	1.798
130	2.332	2.239	2.239	2.140	2.140	2.088	1.995	1.995	1.850	1.798
135	2.239	2.140	2.140	2.140	2.088	2.042	1.943	1.897	1.850	1.798
140	2.239	2.088	2.042	2.042	1.995	1.897	1.943	1.897	1.897	1.897
145	2.140	2.042	1.943	1.943	1.850	1.897	1.943	1.943	1.995	1.943
150	2.042	1.943	1.850	1.798	1.798	1.897	1.995	2.042	2.042	1.943
155	1.943	1.850	1.798	1.653	1.798	1.897	2.042	2.042	1.995	1.943
160	1.752	1.752	1.508	1.607	1.752	1.995	1.943	1.943	1.897	1.897
165	1.653	1.462	1.363	1.554	1.897	1.850	1.850	1.850	1.943	1.995
170	1.752	1.462	1.554	1.943	2.042	2.187	2.332	2.529	2.772	3.062
175	2.917	3.260	3.596	3.938	3.938	4.083	4.135	4.182	4.228	4.228
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	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
5	0.922	0.974	1.264	1.995	2.772	3.938	5.736	7.876	10.063	12.592
10	0.632	0.679	0.777	0.829	0.876	0.974	2.285	5.203	9.872	15.364
15	0.435	0.487	0.586	0.679	0.777	0.876	0.974	2.964	9.529	17.992
20	0.487	0.487	0.435	0.487	0.586	0.679	0.876	1.462	9.187	20.515
25	0.534	0.534	0.487	0.435	0.487	0.586	0.777	0.876	8.706	22.898
30	0.586	0.534	0.534	0.534	0.435	0.534	0.679	0.876	8.219	25.085
35	0.632	0.632	0.586	0.534	0.534	0.435	0.586	0.777	8.219	26.448
40	0.731	0.679	0.632	0.586	0.534	0.534	0.534	0.731	7.586	28.101
45	0.777	0.777	0.679	0.586	0.586	0.534	0.435	0.679	7.001	29.412
50	0.876	0.777	0.777	0.679	0.586	0.534	0.487	0.586	5.638	31.407
55	0.974	0.876	0.777	0.679	0.632	0.586	0.534	0.534	4.860	32.329
60	1.067	0.974	0.876	0.777	0.679	0.586	0.534	0.534	4.135	32.961

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CANDELA TABULATION - (Cont.)

65	1.166	1.021	0.922	0.777	0.679	0.586	0.534	0.487	3.352	36.656
70	1.264	1.067	0.974	0.829	0.777	0.679	0.586	0.487	2.627	36.900
75	1.264	1.166	1.021	0.876	0.777	0.679	0.586	0.487	1.897	35.879
80	1.363	1.218	1.067	0.922	0.777	0.679	0.586	0.487	2.088	35.589
85	1.409	1.264	1.119	0.922	0.829	0.679	0.586	0.534	1.653	35.055
90	1.462	1.311	1.119	0.974	0.829	0.731	0.586	0.534	1.166	38.750
95	1.462	1.311	1.119	1.021	0.829	0.731	0.679	0.586	0.829	34.127
100	1.508	1.363	1.218	1.021	0.922	0.777	0.679	0.586	0.777	29.464
105	1.554	1.409	1.264	1.067	0.922	0.829	0.679	0.632	0.876	27.666
110	1.607	1.462	1.264	1.166	0.974	0.876	0.731	0.679	0.974	24.453
115	1.653	1.508	1.311	1.218	1.021	0.922	0.876	0.777	1.166	19.790
120	1.653	1.554	1.363	1.264	1.119	1.021	0.974	0.974	1.363	14.442
125	1.653	1.554	1.462	1.264	1.218	1.119	1.021	1.166	1.554	11.525
130	1.699	1.607	1.462	1.363	1.264	1.218	1.067	1.462	1.699	9.431
135	1.699	1.653	1.554	1.462	1.363	1.264	1.218	1.653	1.798	8.265
140	1.798	1.752	1.653	1.554	1.409	1.264	1.462	1.850	1.897	6.954
145	1.897	1.798	1.653	1.554	1.409	1.311	1.653	1.943	2.042	5.788
150	1.943	1.850	1.752	1.607	1.607	1.699	2.042	2.187	2.285	5.446
155	1.897	1.798	1.752	1.752	1.943	2.187	2.384	2.430	2.529	5.203
160	1.850	1.897	1.943	2.239	2.627	2.772	2.720	2.819	2.917	4.570
165	2.140	2.430	2.772	3.207	3.503	3.405	3.405	3.451	3.503	4.373
170	3.352	3.695	3.985	3.892	3.892	3.938	3.985	3.985	4.037	4.425
175	4.182	4.182	4.228	4.228	4.228	4.327	4.327	4.327	4.373	4.472
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	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
5	14.877	17.162	19.494	21.779	23.919	25.914	27.910	29.754	31.407	32.915
10	20.567	25.769	31.262	36.320	41.279	46.040	50.709	55.083	58.974	62.669
15	26.158	34.324	42.978	51.144	59.073	66.799	74.194	81.728	88.195	94.465
20	31.604	43.123	54.746	65.929	77.157	88.050	98.890	109.243	118.680	127.623
25	36.755	51.144	65.586	80.562	94.998	109.585	123.731	136.955	149.501	161.315
30	41.615	58.586	76.624	94.366	113.280	130.929	148.039	165.056	180.664	193.842
35	47.891	66.021	87.174	108.077	130.587	151.496	172.109	192.577	211.004	228.503
40	50.269	72.929	97.040	121.058	147.018	171.233	193.546	218.735	240.462	260.838
45	53.186	79.878	105.989	133.017	161.994	189.416	215.476	242.359	267.061	290.928
50	57.275	85.521	114.057	143.765	175.752	199.137	234.633	264.387	291.705	317.863
55	59.897	90.236	121.011	152.998	186.644	218.295	251.355	283.492	312.956	341.539
60	62.037	94.122	127.867	161.948	195.443	230.208	265.408	299.390	330.797	361.183
65	63.788	96.263	131.509	168.217	198.656	239.639	276.440	311.936	344.700	376.403
70	64.856	98.356	134.914	171.668	203.128	247.805	285.633	321.071	354.815	387.341
75	65.488	99.766	137.100	174.731	211.097	252.474	289.762	326.905	362.158	394.098
80	64.566	100.299	138.121	176.239	216.352	254.562	292.245	330.652	364.878	396.720
85	64.177	100.154	138.028	176.291	216.299	254.562	291.949	329.098	364.246	395.896
90	64.368	100.201	136.863	174.783	211.294	252.474	289.519	326.227	359.820	392.202
95	62.913	98.403	134.624	172.057	203.853	247.370	285.047	320.978	353.939	385.590
100	61.062	95.729	130.929	168.658	200.842	240.949	276.590	312.614	344.845	375.573
105	58.829	91.449	127.913	163.311	197.873	233.415	268.859	302.841	333.761	363.515
110	56.301	87.853	121.835	155.823	191.261	225.295	258.257	290.928	320.589	349.079
115	52.995	83.572	115.907	148.381	183.094	214.455	245.810	276.880	305.080	332.740
120	46.673	78.422	109.197	139.925	172.643	200.013	231.664	261.858	288.306	312.759
125	43.320	69.136	98.304	126.846	158.201	188.007	215.911	243.965	268.662	291.514
130	31.453	58.876	86.733	112.062	139.583	166.031	191.313	220.238	245.961	267.931
135	23.821	51.585	73.753	98.304	122.322	145.128	168.171	188.976	215.232	239.981

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CANDELA TABULATION - (Cont.)

140	19.204	39.527	59.897	83.914	105.746	125.680	145.128	165.352	183.338	204.827
145	15.753	29.412	49.248	67.094	87.609	109.487	124.996	140.169	156.014	172.643
150	13.955	24.018	37.288	55.668	69.084	87.464	106.569	119.892	130.343	141.624
155	11.617	20.277	29.510	40.594	55.135	66.996	80.463	96.118	106.813	115.762
160	9.239	16.339	23.484	30.972	38.506	48.471	58.829	68.162	77.836	85.567
165	7.146	11.716	17.649	23.096	28.635	33.692	38.651	44.289	49.880	57.124
170	5.690	7.876	10.985	14.877	18.525	21.930	24.940	28.002	30.873	32.915
175	4.768	5.249	6.177	7.343	8.607	10.208	11.815	13.421	14.686	15.799
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	10.272	10.272	10.272	10.272	10.272	10.272	10.272
5	34.226	35.444	36.412	37.195	37.677	37.973	38.019
10	66.021	68.794	71.178	73.022	74.339	75.064	75.261
15	99.957	104.626	108.663	111.824	113.912	115.223	115.710
20	135.645	142.402	148.283	152.952	156.113	158.009	158.688
25	172.011	181.006	188.883	193.888	198.702	201.179	202.055
30	208.278	219.704	229.378	237.156	242.655	246.204	247.469
35	244.255	258.552	270.123	279.798	286.601	290.980	292.291
40	279.264	295.551	309.894	320.781	328.802	334.057	335.559
45	312.324	330.751	346.939	359.333	368.573	374.454	376.014
50	341.782	362.251	380.242	394.098	404.405	410.727	412.670
55	367.407	389.818	409.022	424.485	435.423	442.180	444.466
60	388.751	412.183	432.895	449.135	460.561	467.706	470.235
65	405.084	429.542	450.399	467.950	480.008	487.542	489.874
70	416.655	441.890	463.182	480.588	493.377	500.766	503.295
75	423.800	449.036	470.571	488.174	500.325	508.300	510.586
80	425.552	450.933	473.634	490.605	502.808	510.586	513.016
85	424.485	450.254	472.079	488.807	500.714	508.643	511.073
90	421.080	445.684	467.120	483.407	495.419	502.906	505.238
95	413.789	437.900	458.809	475.339	486.956	494.201	496.486
100	403.042	426.428	446.896	462.794	474.173	481.075	483.650
105	390.207	412.716	432.506	448.015	458.809	465.566	467.898
110	374.651	396.331	414.613	429.931	440.429	446.896	449.036
115	356.323	376.983	394.487	408.488	418.650	424.972	426.961
120	334.927	355.006	371.293	384.714	394.197	400.026	401.975
125	311.936	330.554	346.109	358.022	366.775	372.412	374.164
130	287.431	303.671	317.915	328.947	336.876	342.125	343.824
135	260.298	275.082	287.964	297.737	305.028	309.500	310.863
140	226.513	244.789	256.169	265.164	271.434	275.419	276.637
145	188.831	207.014	223.155	230.933	236.431	239.830	241.048
150	154.895	168.270	183.924	195.640	200.402	203.319	204.293
155	122.664	132.582	143.277	157.719	165.445	167.829	168.606
160	91.599	95.828	103.797	113.378	126.701	129.468	130.198
165	62.135	65.296	66.509	71.711	78.520	87.609	87.998
170	34.858	36.320	36.076	35.200	38.019	45.118	50.367
175	16.576	17.064	17.307	16.431	14.976	15.167	21.002
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	12.89	N.A.	0.90
0-30	42.61	N.A.	2.90
0-40	98.92	N.A.	6.80
0-60	304.93	N.A.	21.00
0-80	609.28	N.A.	41.90
0-90	775.49	N.A.	53.30
10-90	773.72	N.A.	53.20
20-40	86.03	N.A.	5.90
20-50	173.56	N.A.	11.90
40-70	349.98	N.A.	24.10
60-80	304.35	N.A.	20.90
70-80	160.37	N.A.	11.00
80-90	166.21	N.A.	11.40
90-110	309.44	N.A.	21.30
90-120	436.15	N.A.	30.00
90-130	536.09	N.A.	36.90
90-150	649.12	N.A.	44.70
90-180	678.21	N.A.	46.70
110-180	368.77	N.A.	25.40
0-180	1453.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.77
10-20	11.12
20-30	29.72
30-40	56.31
40-50	87.52
50-60	118.48
60-70	143.98
70-80	160.37
80-90	166.21
90-100	161.59
100-110	147.85
110-120	126.72
120-130	99.94
130-140	70.21
140-150	42.82
150-160	21.27
160-170	6.94
170-180	0.88

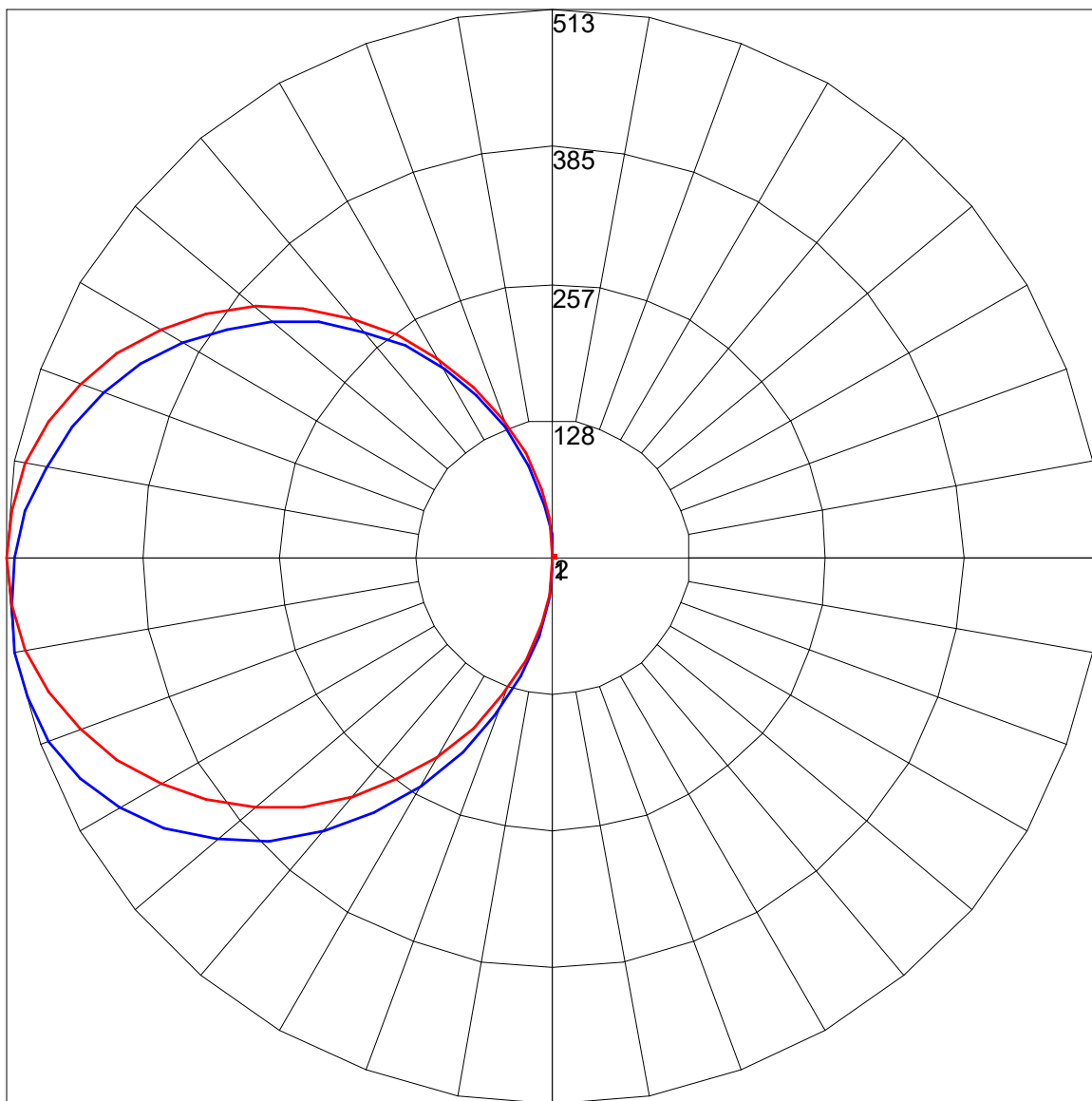
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	93	86	80	74	85	79	73	68	66	62	58	54	51	48	43	40	38	33
2	82	71	63	56	75	66	58	51	54	48	43	44	39	35	34	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	24	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	24	20	16	13
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	24	50	37	29	22	31	24	18	25	19	15	19	14	11	8
7	51	36	27	21	46	33	25	19	27	21	16	22	16	12	17	13	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	30	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	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 513.016 Located At Horizontal Angle = 180, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)