

IES Report

ZipTwo® | 707 | Square 3554, Single Side Diffuse | 90 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	78	80	81
Total Lumens, 4' rail length (1219mm)	1122	1158	1181	1193
Lumens per foot (305mm)	281	289	295	298
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_JA_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011210 (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-JA-BL

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

[MORE] square 3554, single side diffuse 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	1181
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890
5	0.505	0.505	0.545	0.545	0.545	0.545	0.545	0.630	0.630	0.630
10	0.250	0.295	0.335	0.335	0.335	0.375	0.375	0.420	0.460	0.505
15	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335
20	0.335	0.420	0.420	0.375	0.375	0.375	0.375	0.375	0.375	0.375
25	0.505	0.505	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.420
30	0.585	0.585	0.585	0.585	0.585	0.545	0.545	0.545	0.460	0.460
35	0.755	0.715	0.715	0.715	0.715	0.630	0.630	0.630	0.585	0.545
40	0.840	0.840	0.840	0.840	0.795	0.795	0.715	0.715	0.670	0.630
45	1.005	0.965	0.965	0.965	0.920	0.880	0.880	0.795	0.755	0.715
50	1.090	1.090	1.090	1.050	1.050	0.965	0.965	0.880	0.840	0.755
55	1.175	1.175	1.175	1.175	1.130	1.130	1.050	0.965	0.965	0.880
60	1.260	1.300	1.260	1.260	1.215	1.215	1.130	1.090	1.005	0.920
65	1.425	1.385	1.385	1.340	1.300	1.300	1.215	1.130	1.090	1.005
70	1.510	1.465	1.465	1.425	1.385	1.385	1.300	1.215	1.175	1.090
75	1.595	1.550	1.550	1.510	1.465	1.425	1.385	1.300	1.215	1.130
80	1.595	1.595	1.595	1.595	1.550	1.465	1.465	1.385	1.260	1.175
85	1.675	1.675	1.675	1.635	1.595	1.550	1.465	1.385	1.300	1.215
90	1.760	1.760	1.720	1.675	1.635	1.595	1.550	1.465	1.385	1.260
95	1.760	1.760	1.760	1.720	1.675	1.635	1.550	1.465	1.385	1.260
100	1.760	1.760	1.760	1.760	1.720	1.635	1.550	1.510	1.425	1.340
105	1.845	1.845	1.845	1.800	1.760	1.720	1.635	1.550	1.465	1.340
110	1.930	1.885	1.845	1.845	1.800	1.720	1.675	1.595	1.510	1.425
115	1.930	1.930	1.885	1.845	1.800	1.760	1.720	1.635	1.510	1.425
120	1.930	1.885	1.885	1.845	1.800	1.760	1.720	1.635	1.550	1.425
125	1.930	1.885	1.845	1.800	1.800	1.720	1.675	1.635	1.550	1.465
130	1.845	1.845	1.800	1.800	1.720	1.720	1.635	1.595	1.510	1.385
135	1.760	1.760	1.760	1.720	1.720	1.635	1.595	1.550	1.510	1.425
140	1.675	1.675	1.675	1.635	1.635	1.550	1.510	1.550	1.510	1.425
145	1.595	1.595	1.595	1.550	1.465	1.510	1.550	1.550	1.465	1.465
150	1.510	1.510	1.465	1.385	1.425	1.465	1.510	1.510	1.550	1.465
155	1.340	1.385	1.340	1.340	1.385	1.465	1.510	1.550	1.465	1.465
160	1.260	1.260	1.175	1.215	1.300	1.465	1.465	1.425	1.385	1.385
165	1.090	1.050	1.090	1.175	1.340	1.340	1.340	1.260	1.300	1.300
170	1.005	1.005	1.050	1.260	1.340	1.340	1.425	1.550	1.720	1.885
175	1.595	1.800	1.970	2.180	2.220	2.265	2.345	2.390	2.430	2.430
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	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890
5	0.630	0.670	0.755	1.090	1.720	2.685	4.150	5.825	7.710	9.765
10	0.505	0.545	0.585	0.585	0.630	0.670	1.300	3.730	7.630	12.155
15	0.335	0.420	0.460	0.505	0.585	0.585	0.670	2.010	7.460	14.375
20	0.375	0.335	0.375	0.420	0.505	0.545	0.585	1.005	7.125	16.470
25	0.375	0.375	0.375	0.375	0.420	0.505	0.585	0.630	6.790	18.485
30	0.460	0.460	0.375	0.375	0.375	0.420	0.505	0.585	6.455	20.370
35	0.505	0.460	0.460	0.460	0.375	0.375	0.460	0.585	6.035	22.045
40	0.585	0.545	0.505	0.460	0.420	0.375	0.420	0.545	6.035	22.970
45	0.670	0.585	0.545	0.505	0.460	0.375	0.375	0.505	5.615	24.225
50	0.715	0.670	0.585	0.505	0.460	0.420	0.375	0.460	5.070	25.190
55	0.755	0.670	0.630	0.585	0.505	0.460	0.375	0.420	3.900	26.655
60	0.840	0.755	0.670	0.585	0.505	0.460	0.420	0.375	3.310	27.200

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CANDELA TABULATION - (Cont.)

65	0.920	0.840	0.755	0.670	0.585	0.505	0.420	0.375	2.685	27.455
70	0.965	0.840	0.755	0.670	0.585	0.505	0.420	0.375	2.095	27.535
75	1.005	0.920	0.840	0.715	0.585	0.505	0.460	0.375	1.550	27.370
80	1.090	0.965	0.840	0.755	0.630	0.585	0.505	0.420	1.675	26.155
85	1.090	1.005	0.880	0.755	0.670	0.585	0.505	0.420	1.260	25.565
90	1.175	1.005	0.920	0.795	0.670	0.585	0.505	0.420	0.840	24.810
95	1.175	1.050	0.920	0.795	0.715	0.585	0.505	0.460	0.630	24.770
100	1.215	1.090	0.965	0.840	0.715	0.630	0.545	0.460	0.585	23.850
105	1.260	1.130	1.005	0.880	0.755	0.670	0.585	0.505	0.670	22.215
110	1.300	1.175	1.050	0.880	0.795	0.670	0.585	0.545	0.715	19.575
115	1.340	1.175	1.050	0.920	0.840	0.755	0.670	0.545	0.840	16.180
120	1.340	1.215	1.090	1.005	0.880	0.795	0.715	0.630	1.005	12.490
125	1.340	1.215	1.090	1.005	0.880	0.795	0.715	0.795	1.090	9.935
130	1.300	1.215	1.130	1.050	0.920	0.840	0.755	0.965	1.175	8.090
135	1.385	1.260	1.175	1.090	0.965	0.880	0.795	1.090	1.260	7.210
140	1.340	1.300	1.215	1.130	1.005	0.880	0.965	1.215	1.340	6.120
145	1.425	1.340	1.215	1.090	1.005	0.920	1.175	1.340	1.465	5.155
150	1.425	1.340	1.260	1.130	1.050	1.215	1.425	1.510	1.675	4.525
155	1.385	1.300	1.260	1.130	1.215	1.550	1.720	1.800	1.930	3.900
160	1.300	1.260	1.260	1.385	1.675	1.885	1.970	1.970	2.140	3.355
165	1.385	1.510	1.675	1.930	2.055	2.095	2.140	2.220	2.305	2.975
170	2.055	2.180	2.220	2.265	2.305	2.345	2.390	2.390	2.515	2.850
175	2.390	2.390	2.430	2.430	2.475	2.475	2.555	2.555	2.685	2.810
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	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890
5	11.610	13.580	15.465	17.270	19.155	20.830	22.465	24.015	25.400	26.655
10	16.430	20.915	25.230	29.675	33.865	37.845	41.620	45.435	48.785	51.885
15	21.125	28.250	35.125	42.120	48.830	55.325	61.485	67.770	73.135	78.250
20	25.735	35.460	45.225	54.655	63.915	72.970	81.940	90.530	98.325	105.700
25	30.095	43.380	54.655	66.680	78.625	90.195	102.055	113.330	123.555	133.450
30	34.325	48.575	63.495	78.625	93.255	107.800	122.465	136.590	149.500	161.825
35	40.695	54.695	72.090	89.400	107.925	125.235	142.250	159.225	174.105	188.940
40	42.710	60.270	80.135	99.920	121.250	141.285	160.985	180.010	198.620	215.510
45	43.965	65.255	87.345	109.560	133.575	156.080	177.625	200.550	221.000	240.155
50	46.525	70.410	93.840	118.190	144.555	167.900	193.215	217.775	241.160	262.285
55	49.330	74.185	99.460	125.735	154.110	180.265	206.670	233.240	257.675	281.355
60	51.005	77.245	103.940	132.650	161.070	188.730	217.690	245.940	271.715	296.945
65	52.180	79.505	108.300	137.430	167.185	195.980	225.360	255.620	282.615	308.765
70	52.935	80.260	109.935	140.910	169.495	202.185	232.360	262.370	290.200	317.025
75	53.270	81.140	111.445	142.165	171.255	205.410	236.005	266.435	294.600	321.635
80	52.350	81.395	111.990	142.880	172.260	206.710	237.430	267.945	296.865	323.060
85	51.845	81.015	111.610	142.500	171.880	206.165	236.720	267.985	295.775	321.715
90	51.005	79.925	110.315	141.035	171.045	203.945	234.120	263.960	292.255	317.820
95	50.670	79.255	108.345	138.520	168.950	200.340	229.930	259.185	286.010	311.740
100	49.245	77.160	105.575	135.085	165.760	194.430	224.060	252.690	278.590	303.655
105	47.445	74.645	103.060	131.560	160.355	188.060	216.810	244.265	269.325	293.470
110	45.390	70.750	98.830	126.280	153.900	178.335	208.765	234.370	258.430	281.480
115	42.540	67.270	93.255	119.280	147.235	170.665	197.785	222.805	245.730	267.440
120	39.860	62.870	87.720	112.410	138.645	163.120	186.130	209.685	231.815	251.680
125	30.175	55.280	78.835	101.635	126.615	150.550	170.960	195.815	215.720	234.205
130	24.685	46.185	69.490	89.945	112.030	133.070	154.490	176.280	197.700	215.050
135	19.865	40.570	58.675	78.500	97.905	116.305	134.790	154.025	172.215	191.750

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CANDELA TABULATION - (Cont.)

140	16.135	31.055	48.365	66.010	84.745	100.465	115.970	132.275	147.950	161.485
145	13.075	23.930	38.645	52.685	69.280	86.885	100.085	111.945	124.565	137.975
150	11.400	19.405	30.010	42.625	54.235	68.905	84.455	95.390	104.235	113.035
155	9.390	16.135	23.765	32.020	42.500	51.885	62.325	75.400	84.035	91.450
160	7.460	13.035	18.985	24.895	30.470	37.260	45.640	52.935	60.730	66.850
165	5.405	9.305	14.210	18.485	22.970	26.780	30.765	34.580	38.435	44.050
170	3.815	5.870	8.800	11.945	14.835	17.560	19.785	22.340	24.645	26.110
175	3.060	3.480	4.315	5.405	6.665	8.215	9.555	10.730	11.695	12.615
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	7.890	7.890	7.890	7.890	7.890	7.890	7.890
5	27.790	28.750	29.550	30.220	30.640	30.850	30.930
10	54.655	56.960	58.930	60.480	61.525	62.115	62.280
15	82.820	86.630	89.985	92.585	94.385	95.435	95.810
20	112.285	117.900	122.760	126.615	129.215	130.850	131.355
25	142.250	149.750	156.205	161.360	164.880	166.810	167.395
30	172.300	181.815	189.780	196.440	201.010	203.820	204.780
35	202.520	213.920	223.600	231.605	237.220	240.910	242.000
40	231.230	244.685	256.125	265.345	272.050	276.370	277.710
45	257.465	272.805	286.635	297.115	304.660	309.565	311.070
50	282.110	299.045	314.045	325.530	334.040	339.655	341.250
55	302.900	321.340	337.600	349.925	359.230	364.970	366.980
60	319.915	339.360	356.380	370.040	379.600	385.590	387.435
65	332.615	352.730	370.505	384.500	394.435	400.555	402.605
70	341.330	361.870	379.470	394.265	404.285	410.655	412.665
75	346.025	366.855	384.500	398.960	409.270	415.895	417.865
80	346.615	368.115	385.590	400.050	410.195	416.730	418.700
85	344.935	365.640	383.955	397.660	407.635	414.090	416.020
90	341.330	361.450	378.925	392.425	402.190	408.515	410.485
95	334.960	354.410	371.465	384.625	394.185	400.385	402.270
100	326.075	345.060	361.745	374.735	383.915	389.700	391.540
105	315.135	333.660	349.505	362.120	371.045	376.540	378.380
110	302.185	319.830	335.295	347.115	355.625	360.990	362.790
115	287.100	303.780	317.945	329.470	337.855	342.840	344.435
120	270.000	285.715	298.875	309.815	317.400	322.345	323.980
125	250.760	265.135	278.210	287.895	295.060	299.585	300.930
130	230.685	243.970	255.455	264.170	270.670	274.815	276.115
135	208.595	220.540	230.935	238.815	244.685	248.415	249.545
140	180.810	195.895	205.200	212.450	217.440	220.540	221.630
145	151.640	163.750	178.460	184.790	189.190	191.790	192.710
150	123.810	134.790	147.070	157.755	161.485	163.710	164.465
155	97.110	105.115	114.045	125.315	131.895	133.700	134.370
160	71.920	75.400	81.815	89.650	100.000	102.515	103.105
165	48.115	50.755	52.055	56.120	61.735	69.195	69.490
170	27.455	28.540	28.375	27.705	30.010	35.205	40.070
175	13.160	13.410	13.540	12.615	11.610	11.780	16.680
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	10.61	N.A.	0.90
0-30	35.21	N.A.	3.00
0-40	81.79	N.A.	6.90
0-60	251.70	N.A.	21.30
0-80	500.65	N.A.	42.40
0-90	635.45	N.A.	53.80
10-90	634.02	N.A.	53.70
20-40	71.18	N.A.	6.00
20-50	143.46	N.A.	12.10
40-70	288.06	N.A.	24.40
60-80	248.95	N.A.	21.10
70-80	130.80	N.A.	11.10
80-90	134.80	N.A.	11.40
90-110	250.18	N.A.	21.20
90-120	352.27	N.A.	29.80
90-130	432.51	N.A.	36.60
90-150	522.98	N.A.	44.30
90-180	545.88	N.A.	46.20
110-180	295.70	N.A.	25.00
0-180	1181.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.43
10-20	9.18
20-30	24.59
30-40	46.58
40-50	72.28
50-60	97.63
60-70	118.15
70-80	130.80
80-90	134.80
90-100	130.73
100-110	119.45
110-120	102.09
120-130	80.24
130-140	56.29
140-150	34.19
150-160	16.83
160-170	5.40
170-180	0.66

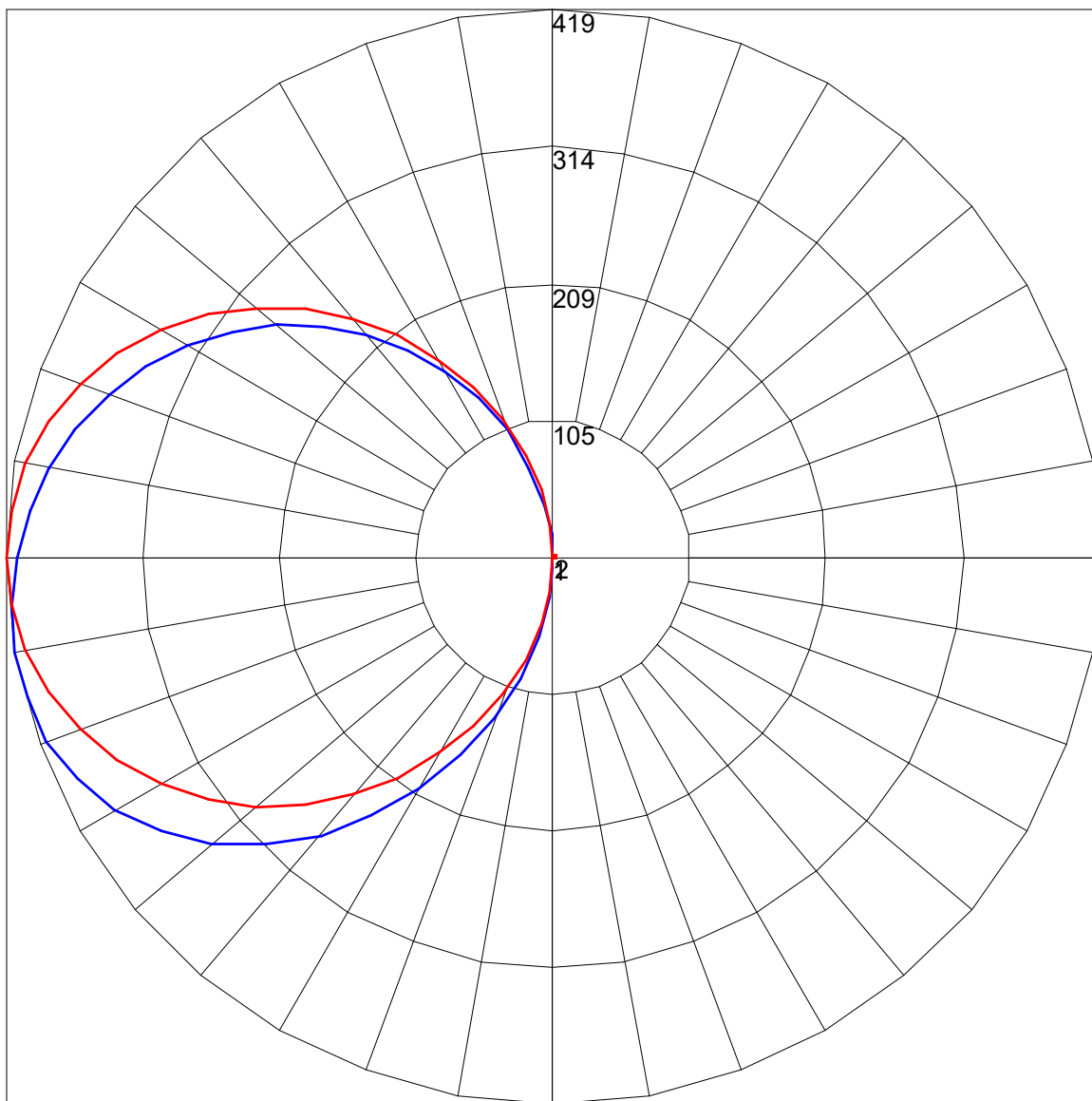
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	60	60	60	54
1	93	86	80	74	85	79	73	69	66	62	58	54	51	48	43	41	39	33
2	82	72	63	56	75	66	58	51	54	48	43	44	40	35	35	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	25	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	25	20	17	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	19	25	19	15	19	15	11	8
7	51	36	27	21	46	33	25	19	28	21	16	22	17	12	17	13	9	6
8	47	33	24	18	43	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	30	21	15	39	27	19	14	23	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 = 418.7 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.)