

IES Report

ZipTwo® | 707 | Square 3519, Single Side Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-FA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	33	34	35	35
Total Lumens, 4' rail length (1219mm)	487	503	513	518
Lumens per foot (305mm)	122	126	128	130
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_FA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011214 (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-FA-WH

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

[MORE] square 3519, 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	513
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
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	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660
5	0.420	0.420	0.420	0.420	0.420	0.460	0.460	0.505	0.505	0.505
10	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.420
15	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.335
20	0.170	0.170	0.210	0.210	0.210	0.210	0.210	0.210	0.250	0.250
25	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.210	0.210	0.210
30	0.335	0.335	0.335	0.295	0.295	0.295	0.295	0.250	0.250	0.250
35	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.295	0.295	0.295
40	0.420	0.420	0.420	0.420	0.420	0.375	0.375	0.375	0.335	0.295
45	0.505	0.505	0.505	0.460	0.460	0.460	0.420	0.375	0.375	0.375
50	0.585	0.545	0.545	0.505	0.505	0.505	0.460	0.460	0.420	0.375
55	0.585	0.585	0.585	0.585	0.585	0.545	0.545	0.460	0.460	0.420
60	0.670	0.670	0.670	0.630	0.630	0.585	0.545	0.545	0.460	0.460
65	0.670	0.670	0.670	0.670	0.670	0.630	0.585	0.545	0.545	0.460
70	0.755	0.755	0.715	0.715	0.670	0.670	0.630	0.585	0.545	0.545
75	0.755	0.755	0.755	0.755	0.715	0.715	0.670	0.630	0.545	0.545
80	0.840	0.795	0.795	0.755	0.755	0.715	0.715	0.630	0.630	0.545
85	0.840	0.840	0.840	0.795	0.755	0.755	0.715	0.630	0.630	0.545
90	0.840	0.840	0.840	0.840	0.795	0.755	0.715	0.715	0.630	0.585
95	0.840	0.840	0.880	0.880	0.840	0.795	0.795	0.715	0.670	0.630
100	1.005	1.005	0.965	0.965	0.965	0.920	0.920	0.840	0.795	0.715
105	1.090	1.090	1.050	1.050	1.090	1.050	1.005	0.920	0.840	0.840
110	1.175	1.175	1.130	1.130	1.130	1.090	1.050	1.005	0.965	0.880
115	1.340	1.300	1.215	1.260	1.260	1.215	1.175	1.090	1.050	1.005
120	1.425	1.385	1.340	1.340	1.300	1.300	1.260	1.130	1.130	1.090
125	1.510	1.465	1.425	1.385	1.385	1.340	1.340	1.215	1.215	1.175
130	1.510	1.510	1.465	1.425	1.425	1.425	1.425	1.300	1.175	1.175
135	1.510	1.595	1.510	1.465	1.510	1.510	1.385	1.260	1.260	1.260
140	1.595	1.595	1.595	1.550	1.595	1.425	1.425	1.300	1.340	1.340
145	1.675	1.675	1.675	1.635	1.425	1.510	1.465	1.385	1.385	1.465
150	1.675	1.720	1.760	1.550	1.550	1.550	1.550	1.510	1.595	1.635
155	1.760	1.760	1.720	1.595	1.595	1.595	1.760	1.720	1.675	1.635
160	1.760	1.760	1.550	1.635	1.635	1.845	1.845	1.635	1.675	1.635
165	1.675	1.465	1.465	1.595	1.885	1.930	1.845	1.720	1.675	1.675
170	1.675	1.425	1.465	1.800	1.845	1.885	1.845	1.800	1.800	1.885
175	1.175	1.595	1.930	2.180	2.265	2.305	2.390	2.390	2.640	2.850
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	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660
5	0.585	0.630	0.715	0.795	0.965	1.175	1.550	1.970	2.475	3.100
10	0.420	0.420	0.420	0.505	0.505	0.630	0.880	1.425	2.430	3.815
15	0.335	0.335	0.375	0.420	0.420	0.505	0.585	1.005	2.430	4.570
20	0.250	0.295	0.335	0.335	0.375	0.420	0.505	0.755	2.305	5.365
25	0.210	0.250	0.250	0.295	0.335	0.375	0.420	0.585	2.265	6.075
30	0.210	0.210	0.210	0.250	0.295	0.335	0.375	0.505	2.140	6.750
35	0.250	0.250	0.210	0.210	0.250	0.295	0.335	0.420	2.095	7.375
40	0.295	0.295	0.250	0.210	0.210	0.250	0.335	0.375	1.970	7.965
45	0.295	0.295	0.295	0.250	0.210	0.250	0.295	0.335	1.845	8.510
50	0.375	0.295	0.295	0.295	0.210	0.210	0.250	0.335	1.635	9.180
55	0.375	0.375	0.295	0.295	0.210	0.210	0.250	0.295	1.510	9.345
60	0.375	0.375	0.295	0.295	0.295	0.210	0.210	0.250	1.300	9.725

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CANDELA TABULATION - (Cont.)

65	0.460	0.375	0.375	0.295	0.295	0.210	0.210	0.250	1.130	10.015
70	0.460	0.420	0.375	0.295	0.295	0.210	0.210	0.210	1.175	10.185
75	0.460	0.460	0.375	0.335	0.295	0.295	0.210	0.210	0.965	10.310
80	0.505	0.460	0.375	0.335	0.295	0.295	0.210	0.210	0.585	10.310
85	0.545	0.460	0.420	0.375	0.295	0.295	0.210	0.210	0.420	10.605
90	0.545	0.460	0.420	0.375	0.295	0.295	0.210	0.210	0.210	10.435
95	0.545	0.505	0.460	0.420	0.335	0.295	0.295	0.210	0.250	10.355
100	0.670	0.585	0.545	0.460	0.420	0.335	0.295	0.295	0.420	10.395
105	0.755	0.670	0.630	0.545	0.460	0.420	0.375	0.375	0.630	9.095
110	0.880	0.795	0.715	0.630	0.585	0.545	0.545	0.545	0.920	8.005
115	0.965	0.880	0.840	0.795	0.755	0.755	0.795	0.715	1.260	7.040
120	1.050	1.050	1.005	0.965	0.965	0.965	0.920	0.920	1.595	6.120
125	1.090	1.050	1.050	1.050	1.050	1.050	1.050	1.090	1.800	5.195
130	1.130	1.175	1.130	1.130	1.130	1.130	1.090	1.215	2.010	4.820
135	1.260	1.260	1.215	1.215	1.215	1.215	1.175	1.340	2.140	4.485
140	1.340	1.385	1.300	1.260	1.260	1.215	1.260	1.595	2.305	4.190
145	1.550	1.425	1.385	1.340	1.300	1.300	1.425	1.845	2.475	3.815
150	1.595	1.550	1.510	1.425	1.465	1.510	1.675	2.345	2.890	3.940
155	1.635	1.595	1.595	1.550	1.510	1.675	2.140	2.850	3.270	4.065
160	1.635	1.635	1.595	1.635	1.720	1.970	2.600	3.225	3.565	4.110
165	1.635	1.675	1.720	1.845	2.095	2.555	3.145	3.565	3.855	4.110
170	1.930	2.010	2.220	2.515	2.890	3.310	3.690	3.980	4.150	4.275
175	2.975	3.185	3.395	3.645	3.855	4.065	4.235	4.360	4.445	4.570
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	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660	2.660
5	3.690	4.315	4.990	5.575	6.205	6.750	7.420	7.920	8.385	8.800
10	5.280	6.705	8.175	9.430	10.770	12.030	13.410	14.545	15.590	16.515
15	6.830	9.055	11.190	13.245	15.380	17.685	19.615	21.545	23.260	24.770
20	8.385	11.315	14.250	17.060	20.075	22.840	26.155	28.835	31.310	33.570
25	9.765	13.495	17.310	21.000	24.940	29.340	32.985	36.550	39.775	42.875
30	11.275	15.760	20.410	25.020	29.925	35.330	39.985	44.510	48.660	52.725
35	12.660	17.940	23.515	29.085	34.995	40.570	47.235	52.770	57.880	62.950
40	14.000	20.120	26.615	33.155	40.070	46.650	54.735	61.190	67.310	73.305
45	15.300	22.170	29.630	37.050	45.100	52.725	62.070	69.660	76.825	83.910
50	16.430	24.140	32.480	40.825	49.960	58.550	69.280	77.955	86.255	94.510
55	17.480	25.985	35.080	44.385	54.865	65.970	76.155	85.835	95.180	104.615
60	18.275	27.705	37.680	49.080	60.565	71.460	82.315	93.465	104.150	114.085
65	19.070	29.170	39.860	50.840	64.420	76.365	88.140	100.210	111.905	122.845
70	19.700	30.385	42.290	53.185	65.885	80.345	92.835	106.040	118.190	129.800
75	20.200	31.390	43.210	55.280	68.610	81.350	96.815	110.775	123.515	135.710
80	20.955	32.525	44.385	56.915	72.845	86.295	99.960	113.915	127.415	140.070
85	21.165	33.025	45.100	58.005	72.090	85.585	101.970	116.140	129.510	142.755
90	21.165	33.195	45.435	58.845	72.215	87.720	102.725	117.020	130.515	143.675
95	21.165	32.775	45.810	58.885	72.255	88.350	102.310	117.020	130.265	143.425
100	21.125	32.690	45.180	58.510	71.755	88.055	102.265	115.885	128.965	141.790
105	21.040	32.355	44.680	57.250	71.040	86.550	100.000	113.580	126.280	139.150
110	20.245	31.895	43.755	56.035	69.365	81.895	97.280	110.775	122.930	134.410
115	18.275	31.435	43.045	54.360	67.100	79.635	93.675	106.455	117.900	128.840
120	15.675	29.715	40.950	52.265	64.375	78.000	89.525	101.175	112.285	122.385
125	13.790	25.065	36.965	47.445	58.885	70.075	83.825	95.015	105.285	114.590
130	11.905	20.455	32.440	42.415	52.685	64.375	74.645	85.585	96.525	105.830
135	10.145	17.940	25.735	37.175	46.565	55.200	65.845	75.065	84.245	93.925

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CANDELA TABULATION - (Cont.)

140	8.760	15.005	21.210	29.215	40.235	48.365	57.295	65.130	72.760	80.680
145	7.670	12.030	17.815	23.135	30.930	41.410	48.535	55.955	61.780	68.190
150	7.295	10.940	14.795	19.990	24.770	30.095	39.940	47.405	52.140	56.205
155	6.665	9.975	13.160	16.260	20.745	24.810	29.255	34.580	39.940	44.300
160	5.995	8.675	11.400	14.085	16.470	19.110	22.090	25.275	29.715	31.600
165	5.240	7.085	9.430	11.400	13.285	15.380	16.725	19.320	20.915	22.925
170	4.735	5.740	7.000	8.590	10.015	11.275	12.365	13.745	14.795	15.800
175	4.610	4.780	5.195	5.700	6.330	7.000	7.630	8.510	8.970	9.345
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	2.660	2.660	2.660	2.660	2.660	2.660	2.660
5	9.095	9.430	9.680	9.890	10.015	10.100	10.060
10	17.350	18.020	18.650	19.155	19.445	19.655	19.700
15	26.110	27.370	28.375	29.170	29.760	30.050	30.175
20	35.585	37.385	38.855	40.025	40.825	41.365	41.495
25	45.640	47.990	50.000	51.595	52.725	53.440	53.650
30	56.245	59.265	61.860	63.960	65.385	66.345	66.640
35	67.270	71.040	74.270	76.910	78.755	79.925	80.390
40	78.670	83.240	87.135	90.405	92.750	94.220	94.555
45	90.235	95.725	100.380	104.275	107.170	108.805	109.475
50	101.680	108.090	113.625	118.235	121.545	123.640	124.310
55	112.785	120.205	126.490	131.815	135.670	138.100	138.980
60	123.515	131.815	139.020	145.100	149.335	152.185	152.980
65	133.195	142.335	150.295	156.875	161.655	164.755	165.805
70	140.950	150.760	159.180	166.225	170.790	173.975	174.855
75	147.030	157.630	166.685	173.095	178.420	181.855	182.820
80	152.140	162.620	171.295	178.545	183.910	187.475	188.520
85	154.865	165.510	174.230	181.645	187.055	190.405	191.370
90	155.955	166.475	175.065	182.570	187.850	191.160	192.375
95	155.410	165.930	174.395	181.730	187.095	190.280	191.455
100	153.610	163.875	171.840	179.130	184.455	187.640	188.690
105	150.255	160.105	167.565	174.940	179.930	183.155	184.080
110	145.310	154.780	162.830	168.110	173.600	176.620	177.455
115	138.730	147.910	155.705	161.780	166.265	168.610	169.575
120	131.940	140.240	147.405	153.105	157.210	159.895	160.690
125	123.345	130.890	137.470	142.545	146.355	148.830	149.540
130	113.750	120.495	126.450	131.060	134.495	136.715	137.305
135	103.395	109.475	114.755	118.820	121.840	123.765	124.310
140	89.065	97.490	102.435	105.955	108.635	110.270	110.730
145	74.815	81.730	89.355	92.670	94.930	96.315	96.735
150	61.400	66.680	72.635	78.920	80.930	82.065	82.400
155	47.905	52.015	56.500	61.780	66.390	67.435	67.730
160	32.985	34.285	37.430	41.325	46.775	49.375	49.625
165	24.475	25.485	25.690	27.285	29.715	34.535	34.870
170	16.305	16.640	16.180	15.090	15.800	18.230	20.870
175	9.555	9.640	9.600	8.970	7.965	7.795	10.060
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	3.41	N.A.	0.70
0-30	11.35	N.A.	2.20
0-40	26.85	N.A.	5.20
0-60	88.50	N.A.	17.30
0-80	190.89	N.A.	37.20
0-90	250.63	N.A.	48.90
10-90	250.16	N.A.	48.80
20-40	23.44	N.A.	4.60
20-50	48.73	N.A.	9.50
40-70	108.77	N.A.	21.20
60-80	102.38	N.A.	20.00
70-80	55.26	N.A.	10.80
80-90	59.75	N.A.	11.60
90-110	116.40	N.A.	22.70
90-120	165.69	N.A.	32.30
90-130	205.10	N.A.	40.00
90-150	250.20	N.A.	48.80
90-180	262.30	N.A.	51.10
110-180	145.90	N.A.	28.40
0-180	512.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.47
10-20	2.94
20-30	7.94
30-40	15.50
40-50	25.28
50-60	36.37
60-70	47.12
70-80	55.26
80-90	59.75
90-100	60.01
100-110	56.38
110-120	49.29
120-130	39.41
130-140	27.92
140-150	17.18
150-160	8.59
160-170	3.00
170-180	0.51

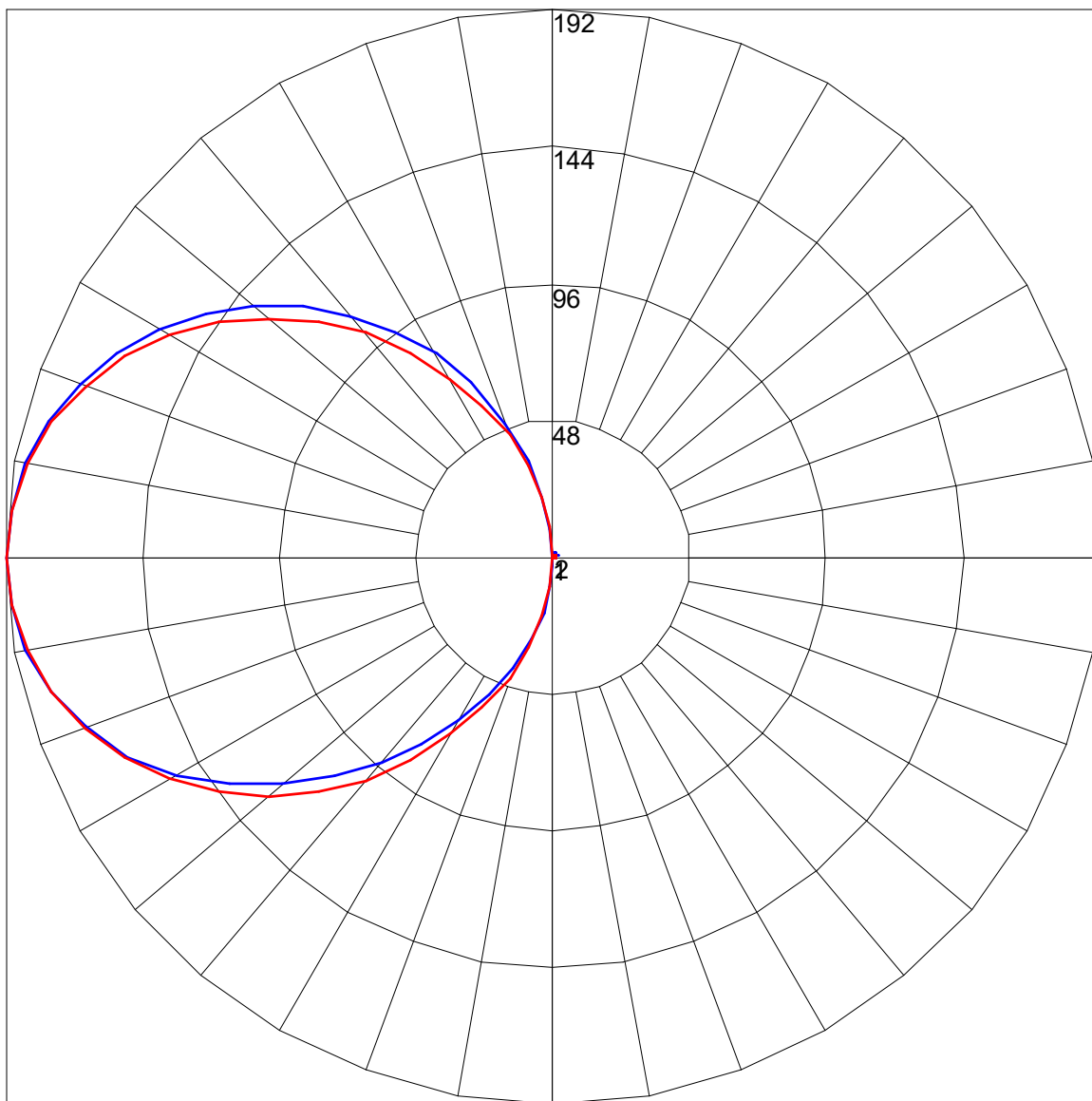
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	78	73	83	77	72	67	64	59	55	51	48	45	39	37	35	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	20
3	72	60	51	43	65	55	46	39	44	38	32	35	30	25	26	22	19	14
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	26	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	6
7	50	36	27	20	45	33	24	19	26	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 192.375 Located At Horizontal Angle = 180, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)