

IES Report

ZipTwo® | 707 | Square, Side Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-S9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	88	89
Total Lumens, 4' rail length (1219mm)	3300	3405	3474	3509
Lumens per foot (305mm)	825	851	869	877
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
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_HO_359_S9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911537 (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-HO-359-S9-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, square side diffuse lens,

[MORE] high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3474
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	39.55
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	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10441	10737	12744
55	8265	8851	12126
65	5810	6618	11325
75	3386	4207	10573
85	1012	1538	8168

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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	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005
5	556.125	555.975	555.825	554.955	554.250	553.395	552.405	551.280	550.035	548.670
10	580.770	580.380	579.255	577.950	576.300	574.320	572.040	568.755	565.290	561.630
15	605.415	604.725	602.910	600.840	598.020	593.760	589.110	584.145	578.895	572.745
20	625.035	624.030	621.810	618.870	613.905	608.580	602.655	595.380	588.135	579.855
25	634.590	632.970	630.990	626.190	620.820	614.235	606.855	599.850	589.140	578.295
30	629.430	627.675	625.245	620.370	614.520	607.635	600.255	590.445	579.675	568.230
35	608.190	606.420	603.405	599.505	593.400	586.830	579.345	568.170	558.180	545.940
40	570.465	569.055	565.890	561.840	557.430	552.405	543.405	534.165	522.285	511.005
45	519.165	518.490	516.195	513.675	508.995	504.915	497.340	491.925	479.940	472.440
50	460.950	459.855	457.665	455.190	451.590	447.225	442.020	435.630	427.800	418.605
55	393.435	392.505	391.755	390.540	388.290	384.510	380.235	374.745	369.570	362.685
60	324.030	323.460	323.250	322.485	321.390	318.870	315.480	312.075	307.800	301.860
65	255.870	255.825	256.320	255.825	255.075	253.800	252.000	249.375	246.345	242.925
70	191.370	191.790	192.480	192.540	192.645	191.760	190.800	189.405	187.335	184.440
75	132.525	133.380	134.280	134.940	134.985	135.015	134.310	133.440	132.810	131.760
80	79.965	81.255	82.560	83.400	83.535	83.565	83.700	83.550	82.455	81.435
85	33.450	35.955	37.260	38.130	38.505	38.475	38.640	38.730	38.760	38.430
90	7.275	6.660	6.420	6.285	6.165	5.910	5.535	5.280	4.905	4.650
95	33.450	35.955	37.260	38.130	38.505	38.475	38.640	38.730	38.760	38.430
100	79.965	81.255	82.560	83.400	83.535	83.565	83.700	83.550	82.455	81.435
105	132.525	133.380	134.280	134.940	134.985	135.015	134.310	133.440	132.810	131.760
110	191.370	191.790	192.480	192.540	192.645	191.760	190.800	189.405	187.335	184.440
115	255.870	255.825	256.320	255.825	255.075	253.800	252.000	249.375	246.345	242.925
120	324.030	323.460	323.250	322.485	321.390	318.870	315.480	312.075	307.800	301.860
125	393.435	392.505	391.755	390.540	388.290	384.510	380.235	374.745	369.570	362.685
130	460.950	459.855	457.665	455.190	451.590	447.225	442.020	435.630	427.800	418.605
135	519.165	518.490	516.195	513.675	508.995	504.915	497.340	491.925	479.940	472.440
140	570.465	569.055	565.890	561.840	557.430	552.405	543.405	534.165	522.285	511.005
145	608.190	606.420	603.405	599.505	593.400	586.830	579.345	568.170	558.180	545.940
150	629.430	627.675	625.245	620.370	614.520	607.635	600.255	590.445	579.675	568.230
155	634.590	632.970	630.990	626.190	620.820	614.235	606.855	599.850	589.140	578.295
160	625.035	624.030	621.810	618.870	613.905	608.580	602.655	595.380	588.135	579.855
165	605.415	604.725	602.910	600.840	598.020	593.760	589.110	584.145	578.895	572.745
170	580.770	580.380	579.255	577.950	576.300	574.320	572.040	568.755	565.290	561.630
175	556.125	555.975	555.825	554.955	554.250	553.395	552.405	551.280	550.035	548.670
180	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000

**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	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005
5	547.215	545.655	544.005	542.295	540.540	538.725	536.895	535.035	533.190	531.780
10	557.820	553.860	549.885	546.135	542.430	538.725	535.035	531.375	527.775	525.030
15	566.295	559.785	553.290	546.855	540.480	534.810	529.305	523.965	518.790	514.770
20	570.660	561.120	551.940	543.045	534.480	526.260	519.090	512.325	505.905	501.330
25	567.945	556.350	544.440	533.265	522.555	512.460	503.595	496.350	489.750	483.915
30	555.795	543.045	529.830	516.975	505.965	495.060	485.295	476.340	468.180	461.640
35	532.905	520.740	506.265	493.620	481.770	470.220	459.090	449.475	441.150	434.880
40	501.495	489.495	476.325	462.705	449.955	438.735	427.365	417.660	409.395	403.635
45	459.765	448.725	435.900	422.970	411.495	400.905	390.450	381.540	374.250	368.700
50	409.890	400.725	389.325	377.790	367.365	357.555	348.540	340.725	334.830	329.880
55	354.390	346.485	337.440	328.335	319.035	311.040	304.005	297.465	291.270	288.405
60	295.950	289.695	283.410	276.120	268.815	262.545	257.265	252.345	247.830	245.370

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CANDELA TABULATION - (Cont.)

65	238.500	233.730	228.405	222.720	217.860	213.570	208.410	204.900	203.250	200.070
70	181.185	178.380	174.900	171.240	168.090	165.270	161.700	159.405	158.175	156.300
75	128.865	128.115	126.960	126.330	125.625	123.090	121.590	120.840	119.760	119.625
80	80.925	81.165	79.695	77.700	77.025	75.420	73.710	73.545	72.990	72.300
85	37.350	37.905	37.410	35.985	36.600	36.195	34.785	35.730	35.640	34.785
90	4.275	3.900	3.390	3.390	2.895	2.385	3.150	2.520	1.755	3.390
95	37.350	37.905	37.410	35.985	36.600	36.195	34.785	35.730	35.640	34.785
100	80.925	81.165	79.695	77.700	77.025	75.420	73.710	73.545	72.990	72.300
105	128.865	128.115	126.960	126.330	125.625	123.090	121.590	120.840	119.760	119.625
110	181.185	178.380	174.900	171.240	168.090	165.270	161.700	159.405	158.175	156.300
115	238.500	233.730	228.405	222.720	217.860	213.570	208.410	204.900	203.250	200.070
120	295.950	289.695	283.410	276.120	268.815	262.545	257.265	252.345	247.830	245.370
125	354.390	346.485	337.440	328.335	319.035	311.040	304.005	297.465	291.270	288.405
130	409.890	400.725	389.325	377.790	367.365	357.555	348.540	340.725	334.830	329.880
135	459.765	448.725	435.900	422.970	411.495	400.905	390.450	381.540	374.250	368.700
140	501.495	489.495	476.325	462.705	449.955	438.735	427.365	417.660	409.395	403.635
145	532.905	520.740	506.265	493.620	481.770	470.220	459.090	449.475	441.150	434.880
150	555.795	543.045	529.830	516.975	505.965	495.060	485.295	476.340	468.180	461.640
155	567.945	556.350	544.440	533.265	522.555	512.460	503.595	496.350	489.750	483.915
160	570.660	561.120	551.940	543.045	534.480	526.260	519.090	512.325	505.905	501.330
165	566.295	559.785	553.290	546.855	540.480	534.810	529.305	523.965	518.790	514.770
170	557.820	553.860	549.885	546.135	542.430	538.725	535.035	531.375	527.775	525.030
175	547.215	545.655	544.005	542.295	540.540	538.725	536.895	535.035	533.190	531.780
180	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005	535.005
5	530.385	529.020	527.715	526.455	525.255	524.130	523.095	522.135	521.280	520.530
10	522.375	519.840	517.440	515.190	513.105	511.920	510.885	509.985	509.205	508.575
15	510.975	507.435	504.405	502.545	501.120	499.980	499.125	498.765	498.630	498.135
20	497.085	493.365	490.395	488.130	486.450	485.925	485.970	486.090	486.075	486.075
25	478.695	474.690	471.690	469.560	469.065	469.275	469.605	469.440	469.980	471.120
30	455.925	452.250	449.385	448.350	448.305	448.500	448.755	449.460	450.660	451.695
35	429.690	425.820	423.660	423.270	423.375	424.230	424.470	425.715	427.110	428.160
40	398.835	394.980	393.675	393.600	393.975	395.025	396.300	397.635	399.150	400.620
45	364.350	361.350	360.540	360.180	360.675	361.785	363.150	365.415	366.495	368.670
50	326.040	324.015	324.090	323.745	324.600	325.935	327.405	328.860	330.540	332.205
55	285.825	284.100	283.710	284.115	285.330	286.680	288.135	290.205	291.060	290.670
60	243.480	242.400	242.280	242.865	243.825	245.550	246.630	245.310	243.735	241.200
65	198.735	199.410	199.680	200.220	201.270	202.410	202.335	198.330	194.790	192.090
70	155.670	156.045	156.870	157.290	157.980	157.560	155.370	152.475	150.045	148.335
75	120.420	114.555	114.555	114.945	115.905	114.990	112.665	110.385	108.540	106.950
80	73.350	73.770	74.385	74.970	75.180	72.525	70.500	68.505	66.105	63.495
85	36.315	36.705	35.955	33.975	31.350	28.275	27.420	26.835	26.040	25.740
90	3.015	3.270	3.645	4.020	4.395	5.280	5.910	6.165	6.540	6.795
95	36.315	36.705	35.955	33.975	31.350	28.275	27.420	26.835	26.040	25.740
100	73.350	73.770	74.385	74.970	75.180	72.525	70.500	68.505	66.105	63.495
105	120.420	114.555	114.555	114.945	115.905	114.990	112.665	110.385	108.540	106.950
110	155.670	156.045	156.870	157.290	157.980	157.560	155.370	152.475	150.045	148.335
115	198.735	199.410	199.680	200.220	201.270	202.410	202.335	198.330	194.790	192.090
120	243.480	242.400	242.280	242.865	243.825	245.550	246.630	245.310	243.735	241.200
125	285.825	284.100	283.710	284.115	285.330	286.680	288.135	290.205	291.060	290.670
130	326.040	324.015	324.090	323.745	324.600	325.935	327.405	328.860	330.540	332.205
135	364.350	361.350	360.540	360.180	360.675	361.785	363.150	365.415	366.495	368.670

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CANDELA TABULATION - (Cont.)

140	398.835	394.980	393.675	393.600	393.975	395.025	396.300	397.635	399.150	400.620
145	429.690	425.820	423.660	423.270	423.375	424.230	424.470	425.715	427.110	428.160
150	455.925	452.250	449.385	448.350	448.305	448.500	448.755	449.460	450.660	451.695
155	478.695	474.690	471.690	469.560	469.065	469.275	469.605	469.440	469.980	471.120
160	497.085	493.365	490.395	488.130	486.450	485.925	485.970	486.090	486.075	486.075
165	510.975	507.435	504.405	502.545	501.120	499.980	499.125	498.765	498.630	498.135
170	522.375	519.840	517.440	515.190	513.105	511.920	510.885	509.985	509.205	508.575
175	530.385	529.020	527.715	526.455	525.255	524.130	523.095	522.135	521.280	520.530
180	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000	534.000

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	535.005	535.005	535.005	535.005	535.005	535.005	535.005
5	519.885	519.360	518.940	518.655	518.490	518.445	518.535
10	508.125	507.405	506.880	506.535	506.370	506.385	506.595
15	497.970	498.090	498.510	498.495	498.495	498.690	499.050
20	486.570	486.645	486.900	487.545	487.605	487.740	488.235
25	471.255	472.050	472.815	473.355	474.255	474.300	474.900
30	453.030	453.855	454.785	455.655	456.645	456.990	457.680
35	430.140	431.085	432.060	433.305	433.965	434.700	435.300
40	401.940	403.800	404.550	405.330	406.365	407.400	407.760
45	369.600	371.535	372.585	373.515	374.415	375.285	375.570
50	333.630	335.025	336.255	337.140	337.890	338.595	339.105
55	293.130	293.205	296.070	297.825	298.500	299.010	299.505
60	239.760	240.165	243.300	249.555	255.795	257.415	257.880
65	191.130	190.320	191.490	194.730	203.565	214.320	214.890
70	149.670	150.870	151.065	150.465	150.915	164.445	171.510
75	105.855	107.250	108.990	110.895	110.670	108.705	126.120
80	62.985	63.030	63.960	65.985	67.020	66.015	77.460
85	27.060	28.290	30.240	31.785	33.255	34.815	34.320
90	7.665	8.805	9.930	11.070	11.700	11.940	0.000
95	27.060	28.290	30.240	31.785	33.255	34.815	34.320
100	62.985	63.030	63.960	65.985	67.020	66.015	77.460
105	105.855	107.250	108.990	110.895	110.670	108.705	126.120
110	149.670	150.870	151.065	150.465	150.915	164.445	171.510
115	191.130	190.320	191.490	194.730	203.565	214.320	214.890
120	239.760	240.165	243.300	249.555	255.795	257.415	257.880
125	293.130	293.205	296.070	297.825	298.500	299.010	299.505
130	333.630	335.025	336.255	337.140	337.890	338.595	339.105
135	369.600	371.535	372.585	373.515	374.415	375.285	375.570
140	401.940	403.800	404.550	405.330	406.365	407.400	407.760
145	430.140	431.085	432.060	433.305	433.965	434.700	435.300
150	453.030	453.855	454.785	455.655	456.645	456.990	457.680
155	471.255	472.050	472.815	473.355	474.255	474.300	474.900
160	486.570	486.645	486.900	487.545	487.605	487.740	488.235
165	497.970	498.090	498.510	498.495	498.495	498.690	499.050
170	508.125	507.405	506.880	506.535	506.370	506.385	506.595
175	519.885	519.360	518.940	518.655	518.490	518.445	518.535
180	534.000	534.000	534.000	534.000	534.000	534.000	534.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	202.62	N.A.	5.80
0-30	443.51	N.A.	12.80
0-40	745.44	N.A.	21.50
0-60	1352.18	N.A.	38.90
0-80	1696.5	N.A.	48.80
0-90	1736.99	N.A.	50.00
10-90	1685.88	N.A.	48.50
20-40	542.82	N.A.	15.60
20-50	861.84	N.A.	24.80
40-70	823.17	N.A.	23.70
60-80	344.32	N.A.	9.90
70-80	127.89	N.A.	3.70
80-90	40.49	N.A.	1.20
90-110	168.38	N.A.	4.80
90-120	384.81	N.A.	11.10
90-130	672.54	N.A.	19.40
90-150	1293.48	N.A.	37.20
90-180	1736.98	N.A.	50.00
110-180	1568.6	N.A.	45.20
0-180	3473.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.11
10-20	151.50
20-30	240.89
30-40	301.93
40-50	319.02
50-60	287.73
60-70	216.43
70-80	127.89
80-90	40.49
90-100	40.49
100-110	127.89
110-120	216.43
120-130	287.73
130-140	319.02
140-150	301.93
150-160	240.89
160-170	151.50
170-180	51.10

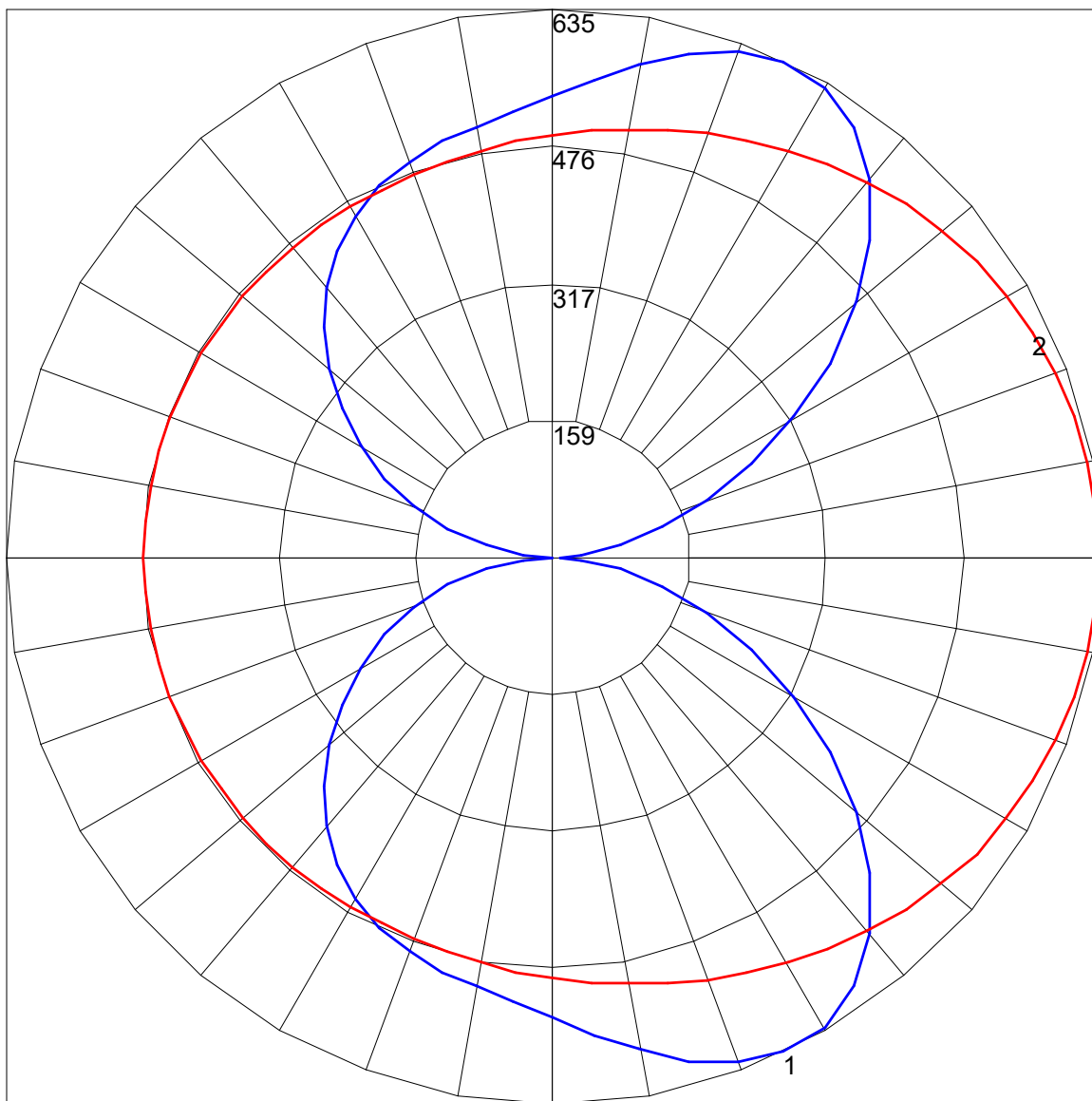
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	73	70	68	60	59	57	49	48	47	41
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	63	57	74	66	59	54	56	51	46	46	43	40	38	35	33	29
4	74	63	54	48	67	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21
6	62	50	41	36	57	46	39	33	39	34	29	33	29	25	27	24	21	18
7	57	45	37	31	53	42	34	29	36	30	26	30	25	22	25	21	19	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 634.59 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)