

IES Report

ZipThree® | 707 | Symmetric, up | 85° Asymmetric, down | 80 CRI | LO

707-Z3-4-48-XX-XX-X-0-Z-LO-35-U1A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	89	92	94	96
Total Lumens, 4' rail length (1219mm)	2734	2821	2878	2936
Lumens per foot (305mm)	684	705	720	734
Lumens per foot UP (305mm)	444	458	467	476
Lumens per foot DOWN (305mm)	240	247	253	258
Input Power (W), 4' rail length (1219mm)	30.8	30.8	30.8	30.8
Watts per foot (305mm)	7.8	7.8	7.8	7.8
CRI	85	85	85	85

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_Z3_LO_35_U1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L091700107 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z3-48-Z-LO-35-U1A1
[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board,
[MORE] symmetric up/85 deg asymmetric down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2878
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	30.82
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	0.19 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9984	9436	3668
55	8976	8773	3512
65	7292	7240	3128
75	5262	5258	2565
85	2448	2402	1432

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	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88
5	325.96	325.38	324.80	323.06	320.74	318.42	314.94	311.46	307.40	302.76
10	411.80	411.22	408.90	405.42	400.78	394.98	388.02	379.90	370.62	360.18
15	495.90	494.74	491.84	486.62	479.66	470.96	460.52	447.76	433.84	417.60
20	565.50	564.34	560.86	555.06	546.94	536.50	524.32	508.66	490.68	470.96
25	611.90	610.74	607.84	602.04	593.92	584.06	570.72	555.06	535.34	513.30
30	631.04	629.88	627.56	622.92	615.96	607.26	595.66	581.16	562.60	541.14
35	624.66	624.08	621.76	618.28	613.06	605.52	596.24	584.64	569.56	550.42
40	596.24	595.66	593.92	591.60	587.54	582.32	575.36	566.08	553.90	538.24
45	548.68	548.68	547.52	545.78	542.88	539.40	534.18	527.22	517.94	505.76
50	487.20	487.20	486.62	484.88	483.14	480.24	476.76	471.54	465.16	456.46
55	416.44	415.86	415.28	414.70	412.96	410.64	407.74	404.26	399.62	393.24
60	340.46	340.46	339.88	339.30	338.14	336.40	334.08	331.18	327.12	322.48
65	265.64	265.64	265.06	264.48	263.32	262.16	259.84	257.52	254.62	251.14
70	196.04	195.46	195.46	194.88	193.72	192.56	190.82	189.08	187.34	184.44
75	133.40	133.40	132.82	132.24	131.66	130.50	129.34	127.60	125.86	123.54
80	78.30	78.30	77.72	77.14	76.56	75.98	74.82	73.66	72.50	70.76
85	33.06	33.06	33.06	32.48	31.90	31.32	30.74	30.16	29.00	27.84
90	12.18	12.18	12.18	12.18	11.60	11.02	10.44	9.86	8.70	8.12
95	38.86	38.86	38.28	38.28	37.70	37.12	35.96	35.38	34.22	32.48
100	74.82	74.24	74.24	74.24	73.66	73.08	71.92	71.34	70.18	68.44
105	117.16	117.16	117.16	117.16	116.58	116.00	115.42	114.84	113.68	112.52
110	168.20	168.20	168.20	168.20	168.20	167.62	167.04	165.88	165.30	164.14
115	226.20	226.20	226.20	226.20	225.62	225.62	225.04	223.88	223.30	222.14
120	289.42	289.42	289.42	288.84	288.84	288.84	288.26	288.26	287.10	286.52
125	354.38	354.38	354.38	354.38	353.80	353.80	353.80	353.80	353.22	352.64
130	418.18	418.18	417.60	417.60	417.60	417.60	417.60	417.02	417.02	417.02
135	476.76	476.76	476.76	476.76	476.18	476.18	476.18	476.18	476.18	476.18
140	528.96	528.96	528.96	528.96	528.96	528.38	528.38	528.38	528.38	528.38
145	574.20	574.20	574.20	574.20	574.20	573.62	573.62	573.62	573.62	573.04
150	612.48	612.48	612.48	611.90	611.90	611.90	611.32	611.32	611.32	610.74
155	643.80	643.80	643.80	643.22	643.22	643.22	642.64	642.64	642.06	642.06
160	668.16	668.16	668.16	668.16	668.16	667.58	667.58	667.00	667.00	666.42
165	686.72	686.72	686.72	686.72	686.14	686.14	686.14	685.56	685.56	685.56
170	698.90	698.90	698.90	698.90	698.90	698.90	698.90	698.32	698.32	698.32
175	706.44	706.44	706.44	706.44	706.44	705.86	705.86	705.86	705.86	705.86
180	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18

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	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88
5	298.12	292.90	287.10	281.30	275.50	269.70	263.90	258.10	251.72	246.50
10	349.16	337.56	324.80	312.04	299.86	287.10	273.76	261.58	249.40	238.38
15	400.78	382.22	362.50	342.78	323.06	302.18	282.46	263.90	245.34	228.52
20	448.92	424.56	398.46	371.20	343.94	316.10	289.42	263.90	239.54	218.08
25	488.94	459.94	428.62	395.56	361.92	327.12	294.06	262.16	232.00	205.90
30	515.62	485.46	451.24	413.54	375.26	334.66	295.80	257.52	222.72	193.14
35	526.64	497.06	462.84	423.40	382.22	336.98	291.74	249.98	212.28	179.22
40	517.36	492.42	460.52	422.24	379.90	334.08	284.20	239.54	195.46	162.40
45	490.10	469.22	440.80	407.16	367.14	321.90	272.60	226.20	183.28	145.58
50	444.28	428.04	406.58	378.16	341.62	299.86	252.30	200.68	164.14	128.18
55	384.54	372.36	356.12	334.08	303.34	265.64	224.46	182.70	142.68	109.62
60	316.10	307.40	295.22	277.82	254.62	223.88	190.24	153.70	119.48	91.06

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_LO_35_U1A1.IES

CANDELA TABULATION - (Cont.)

65	245.92	239.54	230.26	217.50	200.10	177.48	150.80	121.22	93.96	72.50
70	180.38	175.16	168.20	158.92	146.74	130.50	110.20	89.90	70.18	53.94
75	120.64	117.16	111.94	105.56	97.44	87.00	73.66	59.74	47.56	36.54
80	68.44	66.12	63.22	59.16	54.52	48.14	41.18	33.64	26.68	20.30
85	26.68	25.52	23.78	22.04	20.30	17.98	15.08	12.18	9.28	7.54
90	6.96	5.80	4.64	4.06	2.90	2.32	1.74	1.16	0.58	0.58
95	31.32	29.58	27.84	26.10	24.36	22.62	20.88	19.14	17.40	15.66
100	67.28	65.54	63.80	61.48	59.74	56.84	54.52	52.20	49.30	46.98
105	110.78	109.04	107.30	104.98	102.66	100.34	97.44	94.54	91.64	88.74
110	162.40	160.66	158.92	157.18	154.86	152.54	149.64	146.74	143.26	139.78
115	220.98	219.82	218.08	216.34	214.60	212.28	209.38	206.48	203.00	198.94
120	285.36	284.20	283.62	281.88	280.72	278.40	275.50	272.60	269.12	265.64
125	352.06	350.90	350.32	349.16	348.00	346.26	343.36	341.04	337.56	334.08
130	416.44	415.86	415.28	414.12	412.96	411.22	408.90	406.58	403.68	400.78
135	476.18	475.60	475.02	473.86	472.70	470.96	469.22	466.90	464.58	462.84
140	528.38	527.80	527.22	526.06	524.90	523.74	522.00	520.26	519.10	517.36
145	573.04	572.46	571.88	570.72	570.14	568.98	567.82	566.66	565.50	564.34
150	610.16	609.58	609.00	608.42	607.26	606.68	605.52	604.94	604.36	603.20
155	641.48	640.90	640.32	639.74	639.16	638.00	637.42	636.84	636.84	636.26
160	665.84	665.84	665.26	664.68	664.10	663.52	663.52	662.94	662.94	662.36
165	684.98	684.98	684.40	683.82	683.82	683.82	683.24	683.24	682.66	682.66
170	698.32	697.74	697.74	697.74	697.74	697.16	697.16	697.16	697.16	697.16
175	705.86	705.86	705.86	705.86	705.86	705.86	705.86	705.86	705.86	705.86
180	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88	252.88
5	240.70	234.90	230.26	225.04	220.40	216.34	212.28	208.80	205.32	202.42
10	227.36	216.34	207.06	197.78	189.66	182.12	175.74	169.36	164.14	159.50
15	212.86	197.78	185.02	172.84	161.82	152.54	144.42	136.88	130.50	125.28
20	198.36	179.80	163.56	150.22	137.46	127.02	118.32	110.20	103.82	98.60
25	182.70	161.82	143.84	128.76	115.42	104.98	96.86	88.74	82.94	77.72
30	167.04	143.84	125.28	110.20	96.86	87.00	78.88	71.92	66.70	62.64
35	151.38	127.60	108.46	93.38	81.20	71.92	64.96	59.16	55.10	51.62
40	133.98	110.20	92.22	78.30	67.28	59.74	53.94	49.30	46.40	44.08
45	117.16	94.54	77.72	65.54	56.26	49.88	45.82	42.34	40.02	38.86
50	100.92	80.62	65.54	54.52	48.14	42.34	38.86	36.54	34.80	33.64
55	84.68	67.28	54.52	47.56	40.02	35.96	33.64	31.32	30.16	29.58
60	70.18	55.10	46.98	38.28	33.06	30.16	27.84	26.68	25.52	24.36
65	55.68	45.24	35.96	30.74	27.26	24.36	22.62	21.46	20.30	19.72
70	42.34	33.06	27.26	23.78	20.88	18.56	17.40	16.24	15.08	14.50
75	28.42	22.62	19.14	16.24	14.50	12.76	11.60	11.02	10.44	9.86
80	16.24	13.34	11.02	9.28	8.12	7.54	6.38	6.38	5.80	5.22
85	5.80	4.64	4.06	3.48	2.90	2.90	2.32	2.32	2.32	1.74
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	14.50	13.34	12.18	11.02	9.86	9.28	8.70	8.12	7.54	7.54
100	44.66	42.92	40.60	38.86	37.12	35.38	33.64	32.48	31.32	30.16
105	85.84	82.94	80.04	77.72	74.82	72.50	70.18	67.86	66.12	64.38
110	136.30	132.82	129.34	125.86	122.96	119.48	116.58	113.68	110.78	107.88
115	194.88	191.40	187.34	183.86	179.80	175.74	172.26	168.20	165.30	161.82
120	261.58	257.52	253.46	248.82	244.18	240.12	236.06	232.00	227.94	224.46
125	330.60	326.54	322.48	318.42	313.78	309.72	305.66	301.60	297.54	294.06
130	397.88	394.98	391.50	388.02	383.96	380.48	376.42	372.36	368.88	365.40
135	460.52	458.20	455.30	452.98	449.50	446.60	443.12	440.22	436.74	433.84

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_LO_35_U1A1.IES

CANDELA TABULATION - (Cont.)

140	515.62	513.88	512.14	510.40	508.08	505.76	503.44	500.54	498.80	496.48
145	563.18	562.02	560.86	559.70	557.96	556.22	555.06	553.32	551.58	549.84
150	602.62	602.04	601.46	600.88	599.72	598.56	597.98	596.82	595.66	595.08
155	635.68	635.10	635.10	634.52	633.94	633.36	632.78	632.20	631.62	631.62
160	662.36	661.78	661.78	661.20	661.20	661.20	660.62	660.62	660.04	660.04
165	682.66	682.66	682.08	682.08	682.08	682.08	682.08	682.08	681.50	681.50
170	697.16	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58
175	705.28	705.28	705.28	705.28	705.28	705.28	705.28	705.28	705.28	705.28
180	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18	708.18

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0	252.88	252.88	252.88	252.88	252.88	252.88	252.88
5	199.52	197.78	196.04	194.88	193.72	193.14	193.14
10	155.44	151.96	149.06	147.32	145.58	145.00	144.42
15	120.64	117.16	114.26	111.94	110.20	109.04	108.46
20	93.96	90.48	87.58	85.26	84.10	82.94	82.94
25	73.66	70.76	68.44	66.70	64.96	64.38	64.38
30	59.16	56.84	55.10	53.36	52.78	52.20	52.20
35	49.30	48.14	46.40	45.82	45.24	44.66	44.66
40	42.92	41.76	40.60	40.02	40.02	39.44	39.44
45	37.70	36.54	35.96	35.96	35.38	35.38	35.38
50	33.06	32.48	31.90	31.90	31.32	31.32	31.32
55	28.42	27.84	27.84	27.26	27.26	27.26	27.26
60	23.78	23.20	23.20	22.62	22.62	22.62	22.62
65	19.14	18.56	17.98	17.98	17.40	17.40	17.40
70	13.92	13.92	13.34	13.34	12.76	12.76	12.76
75	9.28	9.28	8.70	8.70	8.70	8.70	8.12
80	5.22	5.22	4.64	4.64	4.64	4.64	4.64
85	1.74	1.74	1.74	1.74	1.74	1.74	1.74
90	0.58	0.58	0.58	0.00	0.00	0.00	0.00
95	6.96	6.96	6.96	6.96	6.38	6.38	6.38
100	29.00	28.42	27.84	27.26	26.68	26.68	26.68
105	62.64	60.90	59.74	58.58	58.00	57.42	57.42
110	106.14	103.82	102.08	100.92	99.76	99.18	99.18
115	158.92	156.60	154.28	152.54	151.38	150.80	150.22
120	221.56	218.66	216.34	214.02	212.86	211.70	211.70
125	290.58	287.68	284.78	283.04	281.88	280.72	280.14
130	362.50	359.60	357.28	354.96	353.80	352.64	352.64
135	431.52	429.20	426.88	425.72	423.98	423.40	423.40
140	494.16	492.42	490.68	490.10	488.94	488.36	488.36
145	548.68	547.52	546.36	545.20	544.62	544.62	544.04
150	593.92	593.34	592.18	592.18	591.60	591.60	591.02
155	631.04	630.46	629.88	629.88	629.30	629.30	629.30
160	660.04	659.46	659.46	659.46	658.88	658.88	658.88
165	681.50	681.50	681.50	681.50	681.50	681.50	681.50
170	696.58	696.58	696.58	696.58	696.58	696.58	696.58
175	705.28	705.28	705.28	705.28	705.28	705.28	705.28
180	708.18	708.18	708.18	708.18	708.18	708.18	708.18

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_LO_35_U1A1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	103.03	N.A.	3.60
0-30	238.24	N.A.	8.30
0-40	418.81	N.A.	14.60
0-60	794.53	N.A.	27.60
0-80	991.25	N.A.	34.40
0-90	1010.15	N.A.	35.10
10-90	985.47	N.A.	34.20
20-40	315.79	N.A.	11.00
20-50	513.50	N.A.	17.80
40-70	503.93	N.A.	17.50
60-80	196.72	N.A.	6.80
70-80	68.51	N.A.	2.40
80-90	18.91	N.A.	0.70
90-110	123.03	N.A.	4.30
90-120	318.25	N.A.	11.10
90-130	610.89	N.A.	21.20
90-150	1314.59	N.A.	45.70
90-180	1867.92	N.A.	64.90
110-180	1744.89	N.A.	60.60
0-180	2878.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.68
10-20	78.34
20-30	135.22
30-40	180.57
40-50	197.71
50-60	178.00
60-70	128.21
70-80	68.51
80-90	18.91
90-100	25.79
100-110	97.24
110-120	195.22
120-130	292.64
130-140	352.27
140-150	351.43
150-160	293.31
160-170	192.92
170-180	67.09

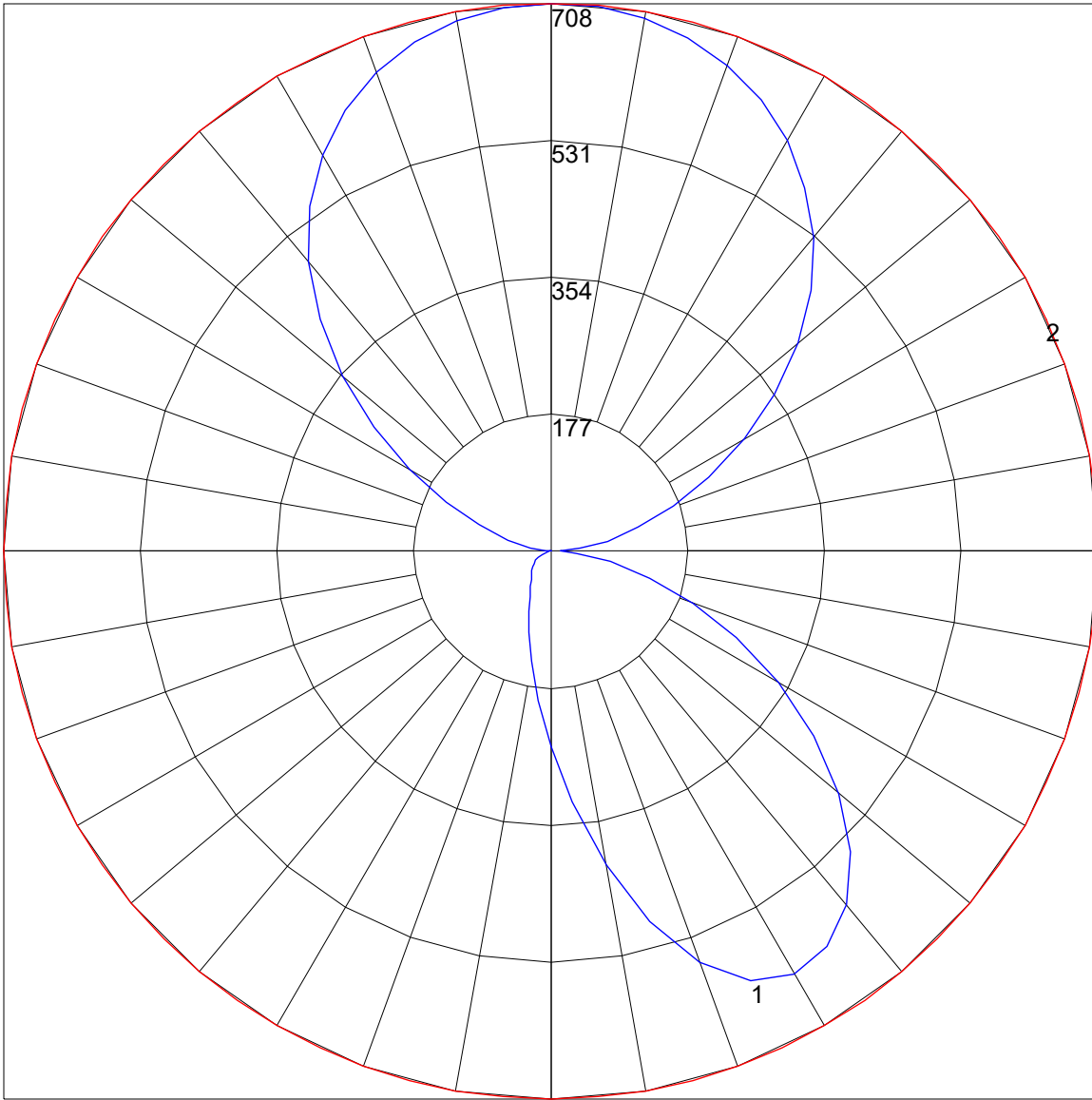
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_LO_35_U1A1.IES

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	
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	94	90	86	83	85	81	78	75	65	63	61	51	49	48	37	36	35	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	32	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	34	31	28	25	23	21	17
5	65	54	45	40	58	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	43	36	31	35	30	26	27	24	21	20	18	16	13
7	55	43	35	29	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12	10
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 708.18 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)