

IES Report

ZipThree® | 707 | Symmetric with EdgeGlow™, up | 85° Asymmetric , down | 90 CRI | LO

707-Z3-4-48-XX-XX-X-0-Z-LO-359-U2A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	80	82	85
Total Lumens, 4' rail length (1219mm)	2373	2448	2498	2548
Lumens per foot (305mm)	593	612	624	637
Lumens per foot UP (305mm)	373	385	393	401
Lumens per foot DOWN (305mm)	220	227	232	236
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	96	96	96	96

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_359_U2A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704237 (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-359-U2A1
[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board,
[MORE] symmetric w/edgeglow 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	2498
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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	7535	7441	4623
55	6441	6542	4143
65	4886	5087	3396
75	3179	3408	2503
85	1095	1232	1417

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	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33
5	399.33	398.82	398.31	397.29	396.27	394.23	392.19	390.15	387.09	384.03
10	451.86	451.35	450.33	448.29	445.74	442.17	438.60	433.50	428.40	422.28
15	490.62	490.11	488.58	486.54	482.97	478.89	473.79	467.16	460.02	451.86
20	513.57	513.06	511.53	508.98	505.92	501.33	495.72	489.09	481.44	471.75
25	521.22	520.71	519.18	517.14	514.08	510.00	504.39	498.27	490.11	480.93
30	514.59	514.08	513.06	511.02	508.47	504.90	500.31	494.19	487.56	478.89
35	493.68	493.68	492.66	491.13	489.09	486.54	482.46	477.87	471.75	464.10
40	459.51	459.51	459.00	457.98	456.45	454.41	451.86	448.29	443.70	437.58
45	414.12	413.61	413.61	413.10	412.08	411.06	409.02	406.47	403.41	398.82
50	359.04	359.04	359.04	358.53	358.02	357.51	356.49	354.96	352.92	349.86
55	298.86	298.86	298.86	298.35	298.35	297.84	297.33	296.31	295.29	293.25
60	237.15	237.15	237.15	237.15	237.15	236.64	236.64	236.13	235.11	234.09
65	177.99	178.50	178.50	178.50	178.50	177.99	177.99	177.99	176.97	176.46
70	126.48	126.48	126.48	126.48	126.48	126.48	126.48	125.97	125.97	125.46
75	80.58	80.58	80.58	80.58	80.58	80.58	80.58	80.58	80.58	80.07
80	42.84	42.84	42.84	42.84	42.84	42.84	42.84	42.84	42.84	42.33
85	14.79	14.79	14.79	14.79	14.79	14.79	14.79	14.79	14.79	14.28
90	0.51	0.51	0.51	1.02	1.02	1.02	1.02	1.02	1.02	0.51
95	13.26	13.26	13.77	13.77	13.77	13.77	14.28	14.28	14.79	14.79
100	36.21	36.21	36.21	36.72	37.23	37.74	38.25	38.76	39.27	40.29
105	66.30	66.30	66.81	67.32	67.83	68.85	69.87	70.89	71.91	72.93
110	104.04	104.04	104.55	105.06	106.08	107.10	108.63	110.16	111.69	113.22
115	148.92	149.43	149.94	150.45	151.98	153.51	154.53	156.57	158.10	160.14
120	200.94	200.94	201.45	202.47	204.00	205.02	207.06	208.59	210.63	212.67
125	256.53	256.53	257.04	258.06	259.08	260.61	262.14	263.67	265.71	267.24
130	311.61	312.12	312.12	313.14	314.16	315.18	316.71	318.24	320.28	322.32
135	363.63	363.63	364.14	364.65	365.67	366.69	368.22	369.75	371.28	373.32
140	411.06	411.06	411.57	412.08	412.59	413.61	415.14	416.16	417.18	418.71
145	452.37	452.88	452.88	453.39	453.90	454.41	454.92	455.94	456.96	457.47
150	487.56	487.56	487.56	488.07	488.07	488.58	488.58	489.09	490.11	490.62
155	515.61	515.61	515.61	515.61	516.12	516.63	516.63	517.14	517.65	518.16
160	538.56	538.56	538.56	538.56	538.56	539.07	539.07	539.58	540.09	540.60
165	556.41	556.41	556.41	556.41	556.92	556.92	557.43	557.94	557.94	558.45
170	570.18	570.18	570.69	570.69	570.69	570.69	571.20	571.20	571.71	572.22
175	580.38	580.38	580.38	580.38	580.38	580.38	580.38	580.89	580.89	580.89
180	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97

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	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33
5	380.97	377.40	373.32	369.24	365.16	361.08	356.49	351.90	347.31	342.72
10	415.14	407.49	399.84	391.17	382.50	372.81	363.63	353.94	343.74	334.05
15	442.68	432.48	420.75	408.00	395.25	380.97	367.20	351.90	336.60	321.81
20	461.55	448.80	435.03	419.73	403.41	385.05	366.18	346.80	326.91	307.53
25	469.71	456.96	441.66	424.83	405.96	384.54	361.59	338.64	314.16	290.19
30	468.18	455.43	440.13	422.28	402.39	378.93	352.92	326.40	298.86	270.81
35	454.92	443.19	428.91	411.57	391.17	367.20	339.66	310.08	278.97	248.88
40	429.42	419.73	406.98	391.17	372.30	348.33	320.28	289.68	257.55	223.38
45	392.70	385.05	374.85	361.08	344.25	322.83	295.29	263.67	231.03	196.35
50	345.78	340.17	332.52	321.81	307.02	288.15	263.16	234.09	200.94	168.30
55	290.70	286.62	281.52	273.36	261.63	245.82	224.40	198.90	168.30	138.72
60	232.56	230.01	225.93	219.81	211.14	198.90	181.56	160.65	135.66	110.16

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CANDELA TABULATION - (Cont.)

65	175.44	173.40	170.85	165.75	160.65	151.47	138.72	122.40	102.00	83.13
70	124.44	122.91	120.87	118.32	113.73	107.10	97.92	86.19	72.42	58.65
75	79.56	79.05	77.52	75.48	72.93	68.85	62.73	55.59	46.41	38.25
80	42.33	41.82	41.31	40.29	39.27	36.72	34.17	30.09	25.50	21.42
85	14.28	14.28	14.28	14.28	13.77	13.26	12.24	10.71	9.18	8.16
90	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.53	2.04
95	15.30	15.30	15.81	15.81	16.32	16.83	17.34	17.34	17.85	18.87
100	40.80	41.31	42.33	42.84	43.86	44.37	44.88	45.39	45.90	46.92
105	74.46	75.48	76.50	78.03	79.05	79.56	80.58	81.09	82.11	82.62
110	114.75	116.79	118.32	119.34	120.87	121.89	122.91	123.42	124.44	125.46
115	162.18	164.22	166.26	167.79	169.32	170.34	171.36	172.38	173.40	174.42
120	214.71	216.75	218.79	220.32	221.85	223.38	224.40	225.93	227.46	228.48
125	269.28	271.83	273.36	275.40	276.93	277.95	279.48	281.01	282.54	283.56
130	323.85	325.89	327.42	328.95	330.48	331.50	333.03	334.56	336.60	337.62
135	374.85	376.38	377.40	378.42	379.95	381.48	383.01	384.54	386.07	388.11
140	419.73	420.75	421.77	422.79	424.32	425.85	427.38	428.91	430.44	432.48
145	458.49	459.51	460.02	461.55	462.57	464.10	465.63	467.16	468.69	470.73
150	491.13	492.15	493.17	494.19	495.21	496.74	497.76	499.29	500.82	502.35
155	518.67	519.69	520.20	521.22	522.24	523.26	524.79	526.32	527.34	528.87
160	541.11	542.13	542.64	543.66	544.68	545.70	546.72	547.74	548.76	549.78
165	558.96	559.47	560.49	561.00	562.02	562.53	563.55	564.06	565.08	566.10
170	572.22	572.73	573.24	573.75	574.26	574.77	575.79	576.30	576.81	577.32
175	581.40	581.40	581.91	581.91	582.42	582.42	582.93	582.93	583.44	583.44
180	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97

Vert. Angles Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33	348.33
5	338.64	334.05	329.46	325.38	321.30	317.73	313.65	310.59	307.53	304.98
10	323.85	314.16	304.47	295.80	286.62	278.97	271.83	264.69	258.57	252.96
15	307.53	292.23	278.46	265.20	252.45	241.23	230.52	220.83	212.67	205.53
20	288.15	268.77	250.92	234.09	218.28	204.51	192.78	181.56	172.38	164.22
25	266.73	243.78	222.36	203.49	186.15	171.36	158.61	146.88	137.19	129.54
30	243.78	217.26	194.31	174.42	155.55	140.76	128.01	116.79	107.61	99.45
35	218.28	190.74	166.77	146.37	128.01	113.22	100.98	90.78	82.11	74.97
40	192.27	164.73	140.76	120.87	103.02	89.76	78.54	69.36	61.71	56.10
45	165.75	137.70	115.26	96.39	81.60	69.36	59.67	52.02	46.41	42.84
50	138.72	113.22	91.29	75.48	62.73	53.04	45.39	39.78	36.21	33.15
55	112.20	89.76	71.91	58.14	47.43	41.31	35.19	31.11	28.56	27.03
60	87.72	69.36	54.57	44.37	36.21	31.11	27.54	24.99	22.95	21.93
65	65.79	51.51	41.82	33.15	27.54	23.97	21.42	19.38	18.36	17.34
70	46.92	36.72	29.58	24.48	20.40	17.85	16.32	14.79	13.77	13.26
75	30.60	24.48	19.89	16.83	14.28	12.24	11.22	10.20	9.69	9.18
80	17.34	14.28	11.73	9.69	8.67	7.65	6.63	6.12	6.12	5.61
85	7.14	5.61	5.10	4.08	3.57	3.57	3.06	3.06	2.55	2.55
90	2.55	3.06	4.08	4.59	5.61	6.63	7.65	8.67	9.69	10.71
95	19.38	20.40	21.42	22.44	23.46	24.48	25.50	26.52	27.54	28.56
100	47.43	48.45	48.96	49.98	51.00	51.51	52.53	53.04	54.06	54.57
105	83.13	84.15	84.66	85.17	86.19	86.70	87.21	87.72	88.23	88.74
110	125.97	126.48	126.99	127.50	128.01	128.52	129.03	129.54	129.54	130.05
115	175.44	175.95	175.95	176.46	176.46	176.97	176.97	177.48	177.48	177.99
120	229.50	229.50	230.01	230.01	230.01	230.52	230.52	231.03	231.03	231.03
125	284.58	285.60	285.60	285.60	286.11	286.11	286.11	286.62	286.62	286.62
130	339.15	340.17	340.68	340.68	341.19	341.19	341.19	341.70	341.70	341.70
135	389.13	390.66	391.17	391.68	392.19	392.19	392.19	392.19	392.19	392.19

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CANDELA TABULATION - (Cont.)

140	433.50	435.03	436.05	436.56	437.07	437.07	437.58	437.58	437.58	437.58
145	471.75	473.28	474.30	474.81	475.32	475.83	476.34	476.85	476.85	476.85
150	503.88	505.41	506.43	506.94	507.96	508.47	508.98	509.49	509.49	510.00
155	530.40	531.42	532.44	533.46	533.97	534.99	534.99	536.01	536.01	536.52
160	551.31	551.82	552.84	553.86	554.88	555.39	555.90	556.41	556.92	557.43
165	567.12	567.63	568.65	569.16	570.18	570.69	571.20	571.71	572.22	572.22
170	577.83	578.34	578.85	579.36	579.87	580.38	580.89	581.40	581.40	581.91
175	583.95	583.95	584.46	584.46	584.97	584.97	585.48	585.48	585.99	585.99
180	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97	584.97

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0	348.33	348.33	348.33	348.33	348.33	348.33	348.33
5	302.43	300.39	298.35	297.33	296.31	295.80	295.29
10	248.37	244.29	240.72	238.17	236.64	235.11	235.11
15	199.41	194.31	189.72	186.66	184.11	183.09	182.58
20	157.59	151.98	147.39	144.33	141.78	140.25	139.74
25	122.40	117.30	112.71	109.14	107.10	105.57	105.06
30	93.33	88.23	84.15	81.09	78.54	77.52	77.01
35	69.36	64.77	61.20	58.65	57.12	56.10	55.59
40	51.51	47.94	45.39	43.86	42.84	42.33	41.82
45	39.27	37.23	35.70	34.68	33.66	33.15	33.15
50	31.11	30.09	29.07	28.05	27.54	27.54	27.54
55	25.50	24.48	23.97	23.46	23.46	22.95	22.95
60	20.91	20.40	19.89	19.38	19.38	18.87	18.87
65	16.83	16.32	15.81	15.30	15.30	15.30	15.30
70	12.75	12.24	11.73	11.73	11.73	11.22	11.22
75	8.67	8.67	8.16	8.16	8.16	8.16	7.65
80	5.61	5.10	5.10	5.10	5.10	4.59	4.59
85	2.55	2.55	2.55	2.55	2.55	2.04	2.04
90	11.22	12.24	12.75	13.26	13.77	14.28	14.28
95	29.07	30.09	30.60	31.11	31.62	31.62	31.62
100	55.59	56.10	56.10	56.61	57.12	57.12	57.12
105	89.25	89.25	89.76	89.76	89.76	89.76	89.76
110	130.05	130.05	130.05	130.05	130.05	130.05	130.05
115	177.99	177.99	177.99	177.99	177.48	177.48	177.48
120	231.03	231.03	231.03	231.03	231.03	231.03	231.03
125	286.62	286.62	286.62	286.62	286.62	286.62	286.62
130	341.70	341.70	341.70	341.70	341.70	341.70	341.70
135	392.19	392.70	392.70	392.70	392.70	392.70	392.70
140	437.58	437.58	438.09	438.09	438.09	438.09	438.09
145	476.85	477.36	477.36	477.36	477.36	477.36	477.36
150	510.00	510.51	510.51	510.51	510.51	511.02	510.51
155	537.03	537.03	537.54	537.54	537.54	537.54	537.54
160	557.94	557.94	557.94	558.45	558.45	558.45	558.45
165	572.73	572.73	573.24	573.24	573.24	573.24	573.75
170	581.91	582.42	582.42	582.93	582.93	582.93	582.93
175	585.99	585.99	585.99	585.99	586.50	586.50	586.50
180	584.97	584.97	584.97	584.97	584.97	584.97	584.97

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	128.05	N.A.	5.10
0-30	272.58	N.A.	10.90
0-40	445.73	N.A.	17.80
0-60	766.29	N.A.	30.70
0-80	913.88	N.A.	36.60
0-90	926.70	N.A.	37.10
10-90	893.67	N.A.	35.80
20-40	317.69	N.A.	12.70
20-50	491.98	N.A.	19.70
40-70	419.16	N.A.	16.80
60-80	147.59	N.A.	5.90
70-80	48.98	N.A.	2.00
80-90	12.82	N.A.	0.50
90-110	111.69	N.A.	4.50
90-120	279.96	N.A.	11.20
90-130	527.58	N.A.	21.10
90-150	1113.57	N.A.	44.60
90-180	1571.33	N.A.	62.90
110-180	1459.64	N.A.	58.40
0-180	2498.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.03
10-20	95.02
20-30	144.53
30-40	173.16
40-50	174.29
50-60	146.27
60-70	98.60
70-80	48.98
80-90	12.82
90-100	25.13
100-110	86.56
110-120	168.27
120-130	247.62
130-140	294.31
140-150	291.69
150-160	242.79
160-170	159.51
170-180	55.46

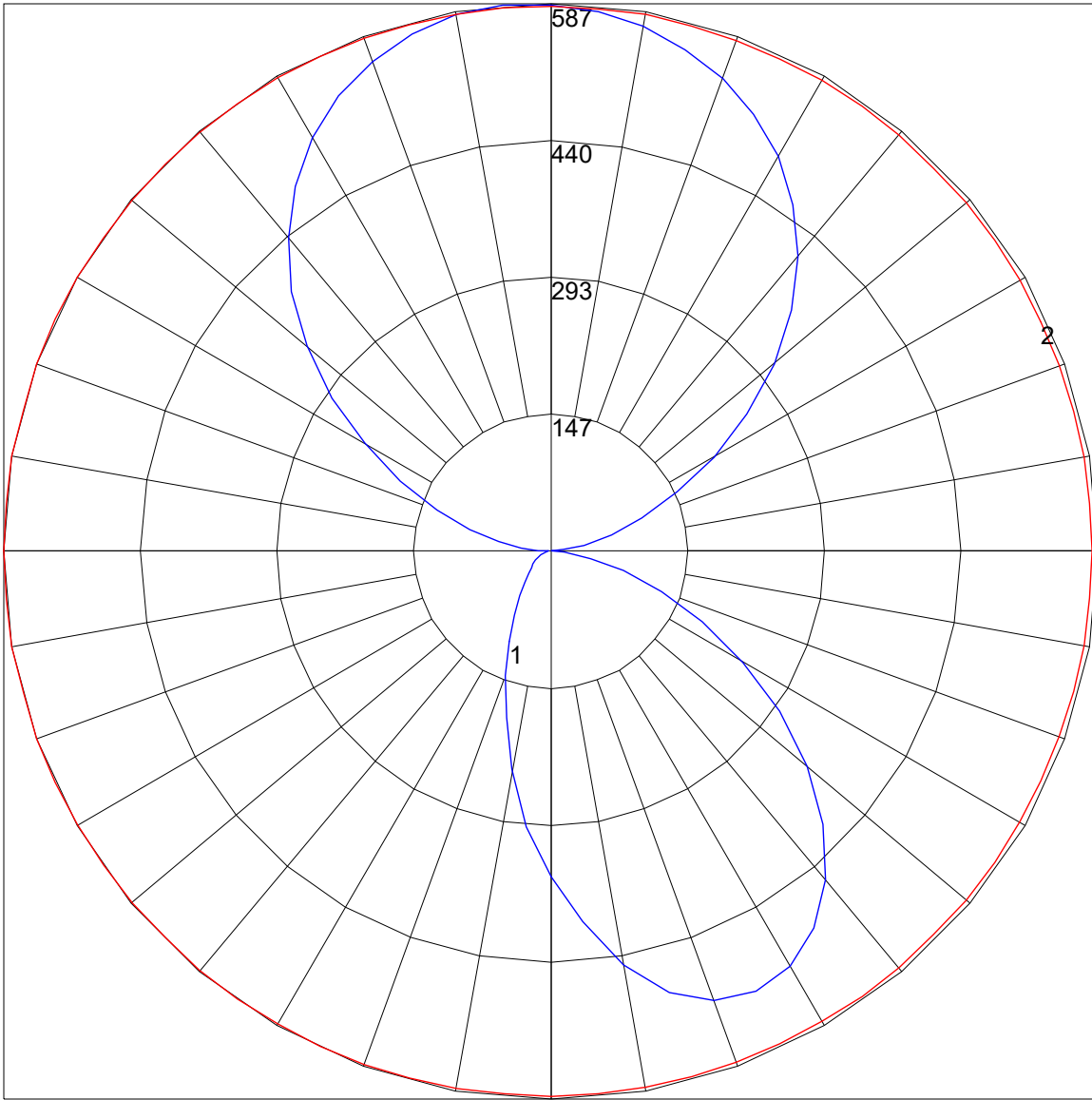
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	39	38	38	32
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

POLAR GRAPH



Maximum Candela = 586.5 Located At Horizontal Angle = 170, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (170 - 350) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)