

LIGHT LABORATORY, INC.

8165 E Kaiser Blvd. Anaheim, CA 92808

SHT 1 OF 5

Test #: L06110911

Date: 7/22/2011

Luminaire Photometric Performance LM-79-2008

Manufacturer:	ELATION LIGHTING
Model Number:	TVL 3000 CW LENS 1

Total Lumens:	3174.18
Input Power (W):	63.80
Input Current (Amp):	0.97
Input Power Factor:	0.55
Efficacy:	49.75
Color Rendering Index (CRI):	72.40
Correlated Color Temperature (K):	6453
Chromaticity Ordinate x:	0.314
Chromaticity Ordinate y:	0.320

*Test data documentation on file and available upon request.

*All results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

A					JS	7/22/11
REV.	LOG NUMBER	REVISION DESCRIPTION	REVISION BY	CHECKED BY	APPROVED BY	DATE



**IES FLOOD REPORT
PHOTOMETRIC FILENAME : L06110911.IES**

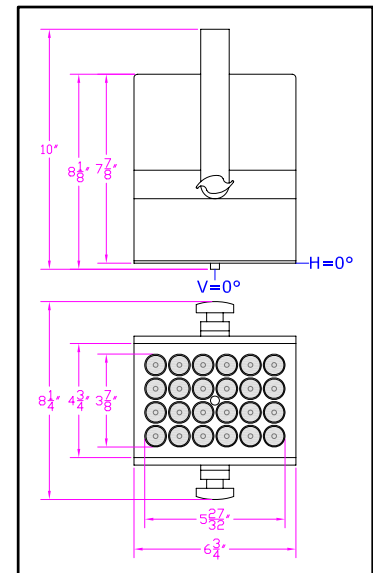
DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L06110911
[TESTLAB] LIGHT LABORATORY INC
[ISSUEDATE] 7/22/2011
[MANUFAC] ELATION LIGHTING
[LUMCAT] TVL 3000 CW LENS 1
[LUMINAIRE] 6-3/4"L. X 8-1/4"W. X 10"H. LED TV LIGHT
[MORE] 24 COOL WHITE LEDS WITH LENS 1 OPTICS
[BALLAST] 100 TO 240VAC 50/60Hz ELECTRONIC
[LAMPPOSITION] 0,0
[LAMPCAT] COOL WHITE LED
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 63.80W
[TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type	1 H x 1 V
Maximum Candela	78068
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	6.9
Vertical Beam Angle (50%)	7.0
Horizontal Field Angle (10%)	13.8
Vertical Field Angle (10%)	13.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	578
Beam Efficiency	N.A.
Field Lumens	1331
Field Efficiency	N.A.
Spill Lumens	1843
Luminaire Lumens	3174
Total Efficiency	N.A.
Total Luminaire Watts	63.8
Ballast Factor	1.00

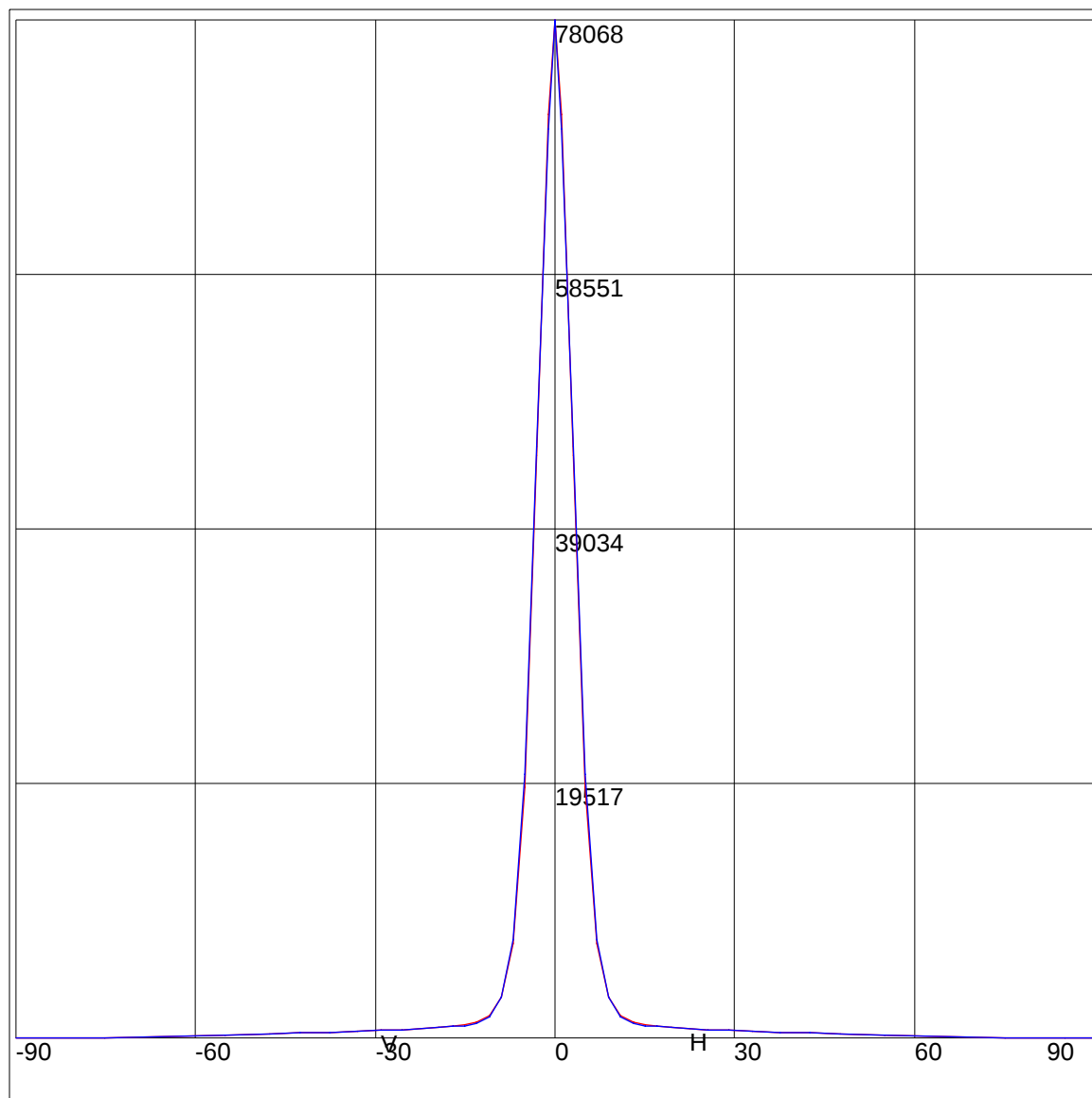


IES FLOOD REPORT
PHOTOMETRIC FILENAME : L06110911.IES

AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	23	85	23
75	39	75	39
65	132	65	132
55	251	55	253
47.5	352	47.5	355
42.5	416	42.5	419
37.5	474	37.5	475
33	531	33	534
29	605	29	609
25.5	689	25.5	690
22.5	753	22.5	749
19.5	823	19.5	811
17	930	17	905
15	1022	15	995
13	1215	13	1169
11	1740	11	1664
9	3122	9	3170
7	7312	7	7610
5	19205	5	20211
3	44695	3	45423
1	70787	1	69720
0	78068	0	78068
-1	70787	-1	69720
-3	44695	-3	45423
-5	19205	-5	20211
-7	7312	-7	7610
-9	3122	-9	3170
-11	1740	-11	1664
-13	1215	-13	1169
-15	1022	-15	995
-17	930	-17	905
-19.5	823	-19.5	811
-22.5	753	-22.5	749
-25.5	689	-25.5	690
-29	605	-29	609
-33	531	-33	534
-37.5	474	-37.5	475
-42.5	416	-42.5	419
-47.5	352	-47.5	355
-55	251	-55	253
-65	132	-65	132
-75	39	-75	39
-85	23	-85	23
-90	0	-90	0

AXIAL CANDELA DISPLAY

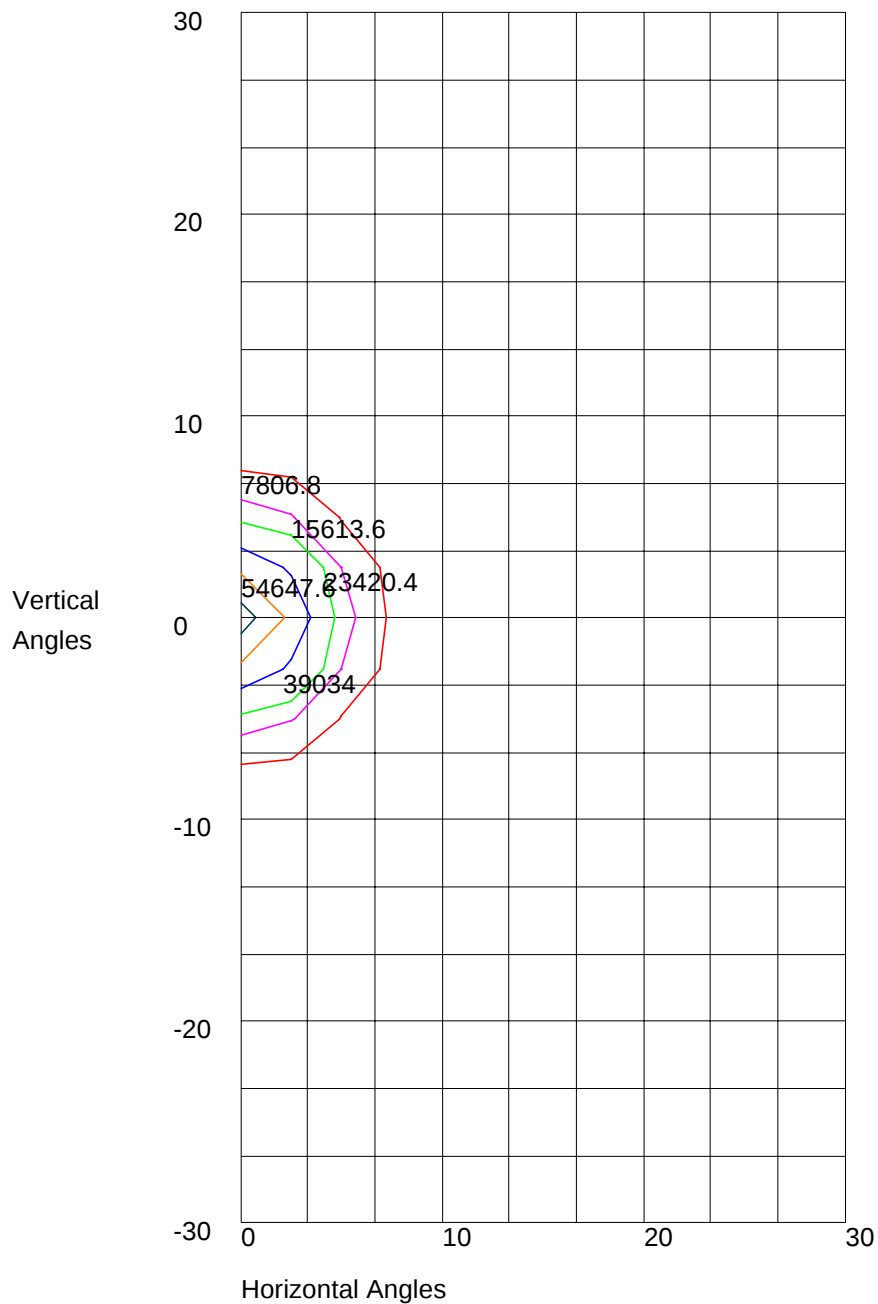


Maximum Candela = 78068 Located At Horizontal Angle = 0, Vertical Angle = 0

H - Horizontal Axial Candela

V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 78068 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 39034
10% Maximum Candela = 7806.8

LIGHT LABORATORY, INC.

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SHT 1 OF 5

Test #: L06110914

Date: 7/22/2011

Luminaire Photometric Performance LM-79-2008

Manufacturer:	ELATION LIGHTING
Model Number:	TVL 3000 WW LENS 1

Total Lumens:	2387.86
Input Power (W):	63.65
Input Current (Amp):	0.96
Input Power Factor:	0.55
Efficacy:	37.52
Color Rendering Index (CRI):	81.10
Correlated Color Temperature (K):	2944
Chromaticity Ordinate x:	0.434
Chromaticity Ordinate y:	0.392

*Test data documentation on file and available upon request.

*All results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

A					JS	7/22/11
REV.	LOG NUMBER	REVISION DESCRIPTION	REVISION BY	CHECKED BY	APPROVED BY	DATE

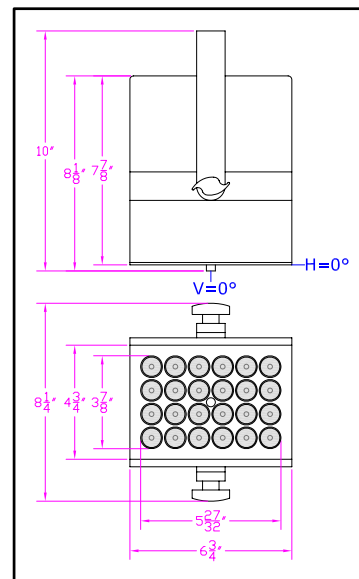
IES FLOOD REPORT
PHOTOMETRIC FILENAME : L06110914.IES
DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L06110914
 [TESTLAB] LIGHT LABORATORY INC
 [ISSUEDATE] 7/22/2011
 [MANUFAC] ELATION LIGHTING
 [LUMCAT] TVL 3000 WW LENS 1
 [LUMINAIRE] 6-3/4"L. X 8-1/4"W. X 10"H. LED TV LIGHT
 [MORE] 24 WARM WHITE LEDS WITH LENS 1 OPTICS
 [BALLAST] 100 TO 240VAC 50/60Hz ELECTRONIC
 [LAMPPOSITION] 0,0
 [LAMPCAT] WARM WHITE LED
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 63.65W
 [TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type	1 H x 1 V
Maximum Candela	53772
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	7.3
Vertical Beam Angle (50%)	7.5
Horizontal Field Angle (10%)	13.7
Vertical Field Angle (10%)	14.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	423
Beam Efficiency	N.A.
Field Lumens	971
Field Efficiency	N.A.
Spill Lumens	1417
Luminaire Lumens	2388
Total Efficiency	N.A.
Total Luminaire Watts	63.65
Ballast Factor	1.00

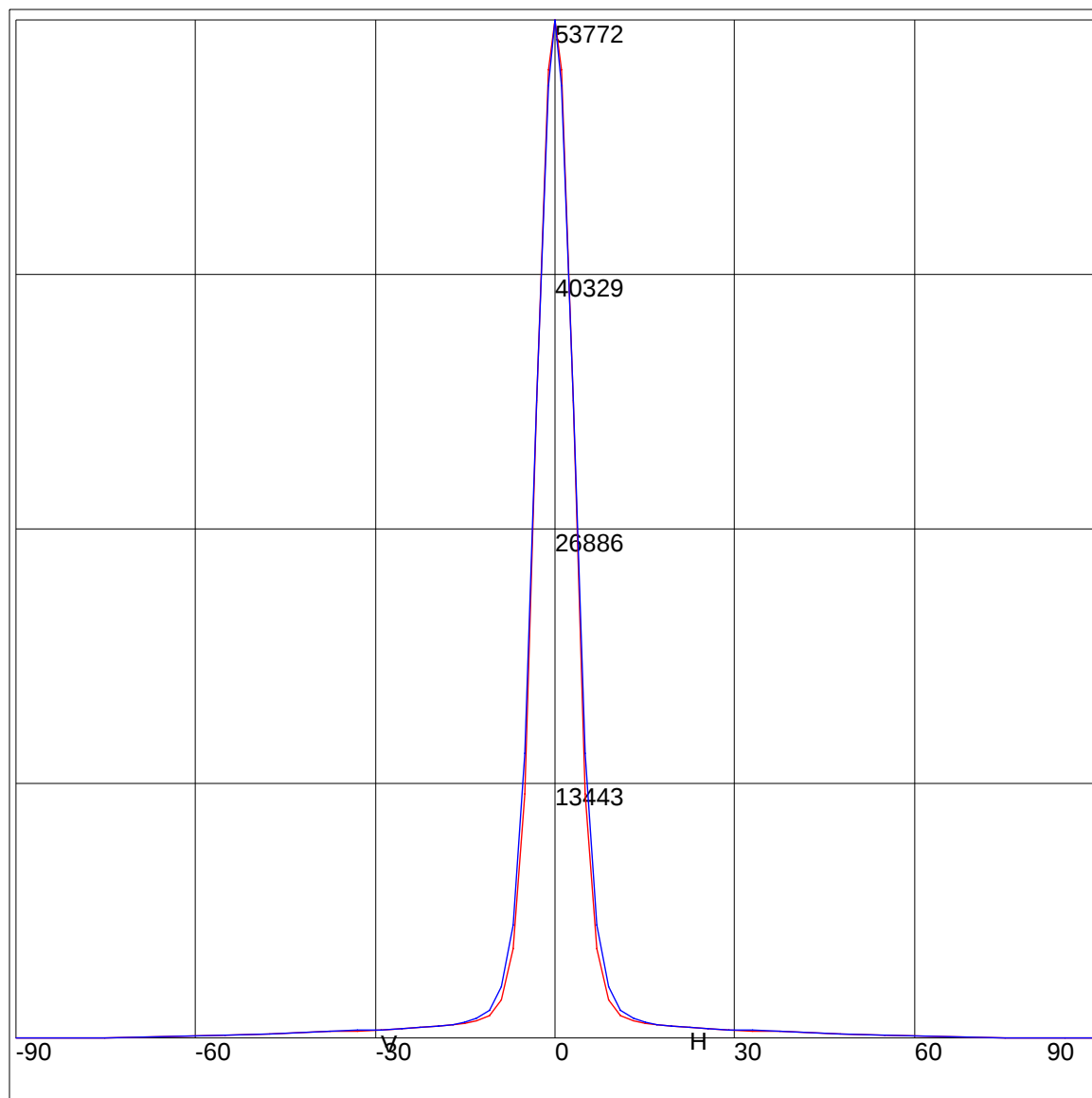


IES FLOOD REPORT
PHOTOMETRIC FILENAME : L06110914.IES

AXIAL CANDELA

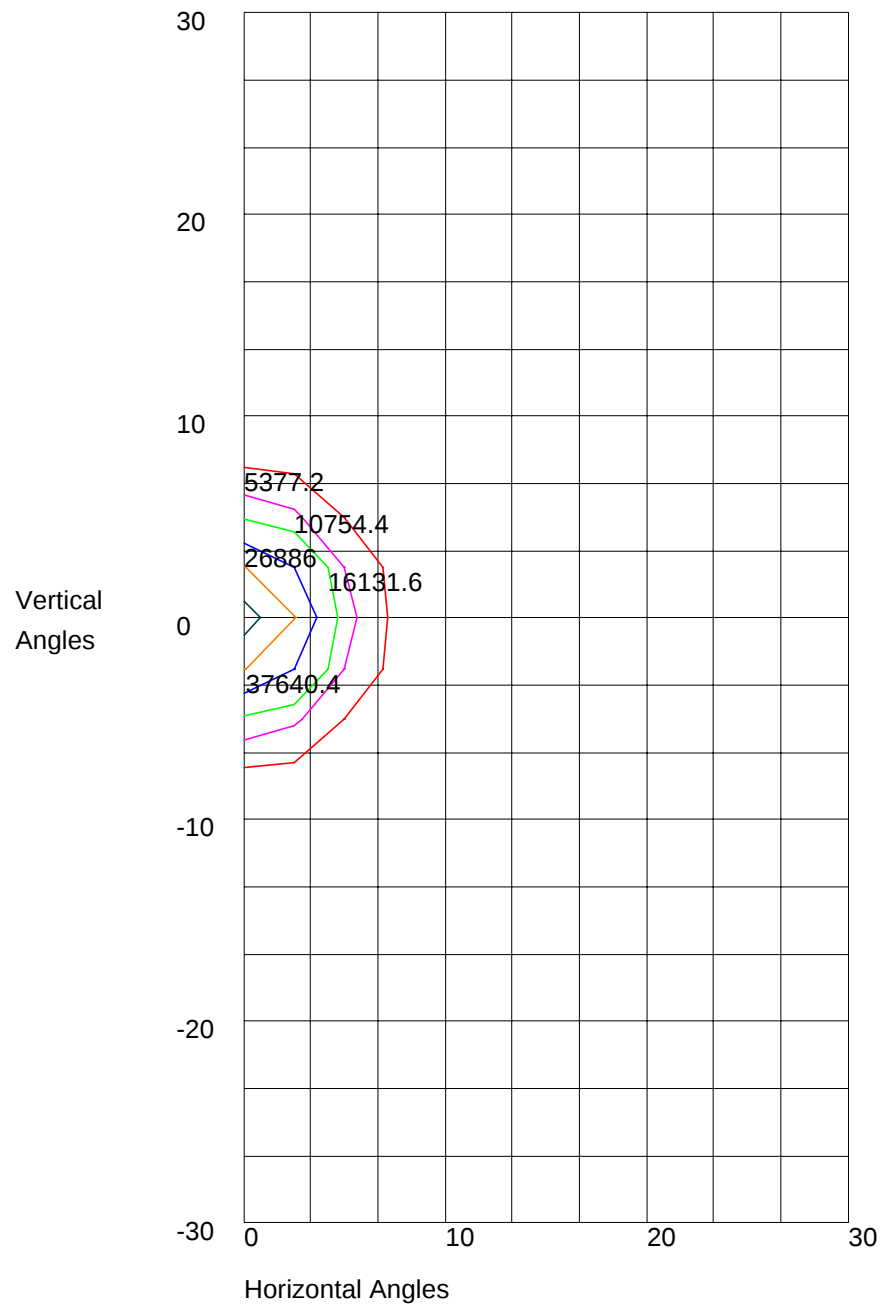
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	18	85	18
75	30	75	30
65	93	65	91
55	190	55	191
47.5	270	47.5	270
42.5	318	42.5	319
37.5	363	37.5	365
33	410	33	415
29	469	29	476
25.5	539	25.5	541
22.5	594	22.5	596
19.5	649	19.5	654
17	728	17	744
15	801	15	850
13	916	13	1041
11	1212	11	1499
9	2041	9	2730
7	4711	7	5966
5	12939	5	15055
3	33598	3	33719
1	51122	1	50326
0	53772	0	53772
-1	51122	-1	50326
-3	33598	-3	33719
-5	12939	-5	15055
-7	4711	-7	5966
-9	2041	-9	2730
-11	1212	-11	1499
-13	916	-13	1041
-15	801	-15	850
-17	728	-17	744
-19.5	649	-19.5	654
-22.5	594	-22.5	596
-25.5	539	-25.5	541
-29	469	-29	476
-33	410	-33	415
-37.5	363	-37.5	365
-42.5	318	-42.5	319
-47.5	270	-47.5	270
-55	190	-55	191
-65	93	-65	91
-75	30	-75	30
-85	18	-85	18
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 53772 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 53772 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 26886
 10% Maximum Candela = 5377.2