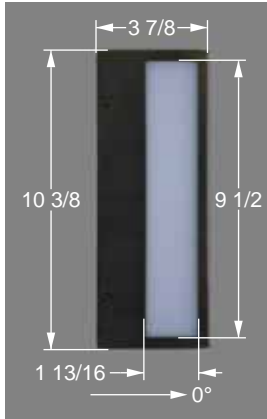




ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 5.5 foot mounting height.



REPORT NUMBER: ITL87395-GONIOPHOTOMETRY
ISSUE DATE: 05/23/16 PAGE: 1 OF 8
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-740

LUMINAIRE: FABRICATED WHITE PAINTED METAL CIRCUIT BOARD MOUNT/DRIVER HOUSING, FABRICATED BLACK PAINTED METAL HOUSING WITH ONE TOP AND BOTTOM APERTURE, 1 WHITE CIRCUIT BOARD WITH 30 LEDS, FROSTED TRANSLUCENT WHITE ACRYLIC TOP AND BOTTOM DIFFUSER. DIFFUSERS FROSTED SIDE OUT.

LAMPS: THIRTY WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.
INPUT ELECTRICAL: 120.0 VOLTS, 12.8 WATTS, 0.110 AMPS

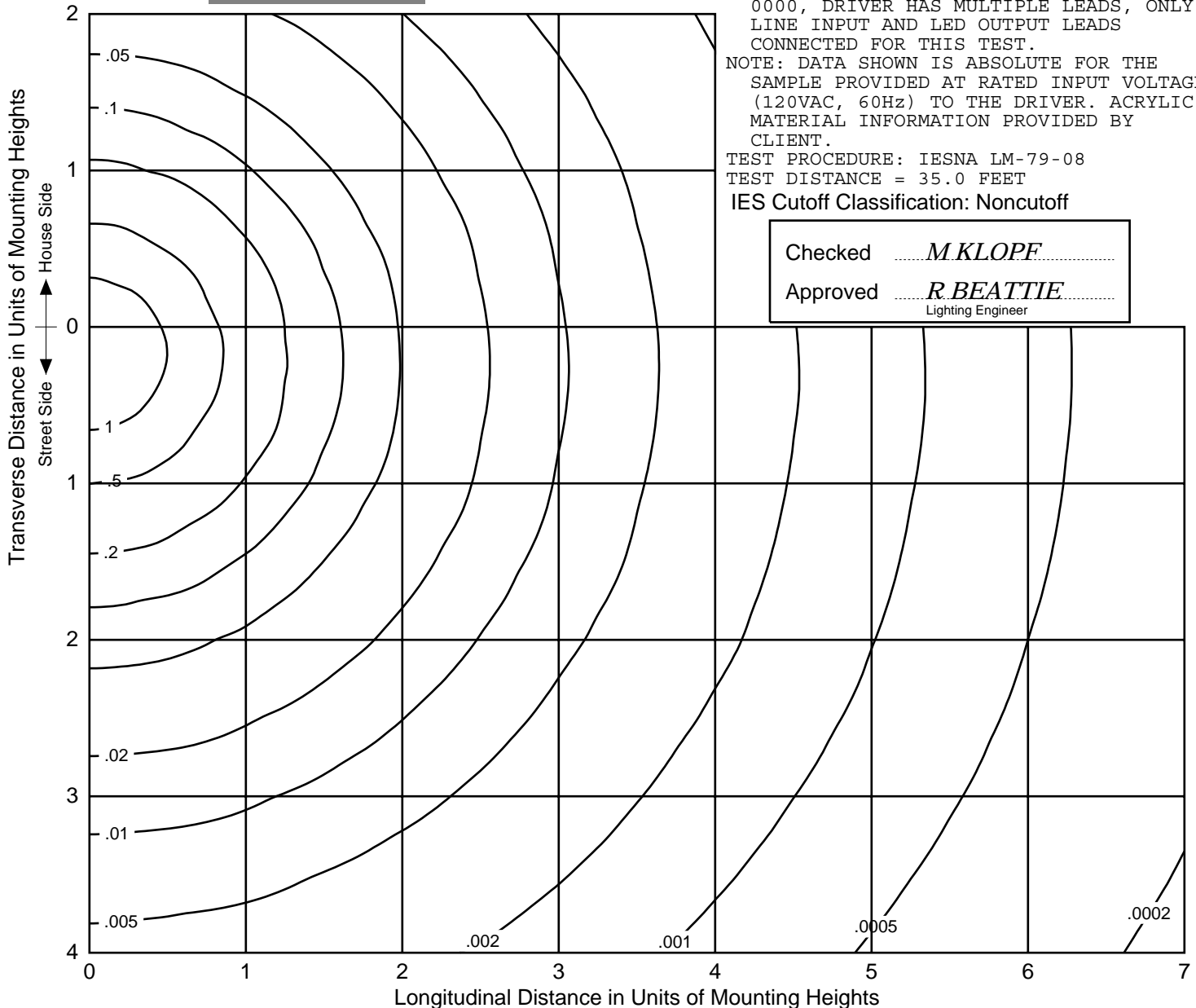
LED DRIVER: L.T.F. DA12W350C1834D010-0000, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER. ACRYLIC MATERIAL INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 35.0 FEET

IES Cutoff Classification: Noncutoff

Checked *M.KLOPF*
Approved *R.BEATTIE*
Lighting Engineer





REPORT NUMBER: ITL87395-GONIOPHOTOMETRY
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LUMINAIRE: FABRICATED WHITE PAINTED METAL CIRCUIT BOARD MOUNT/DRIVER HOUSING, FABRICATED BLACK PAINTED METAL HOUSING WITH ONE TOP AND BOTTOM APERTURE, 1 WHITE CIRCUIT BOARD WITH 30 LEDS, FROSTED TRANSLUCENT WHITE ACRYLIC TOP AND BOTTOM DIFFUSER. DIFFUSERS FROSTED SIDE OUT.

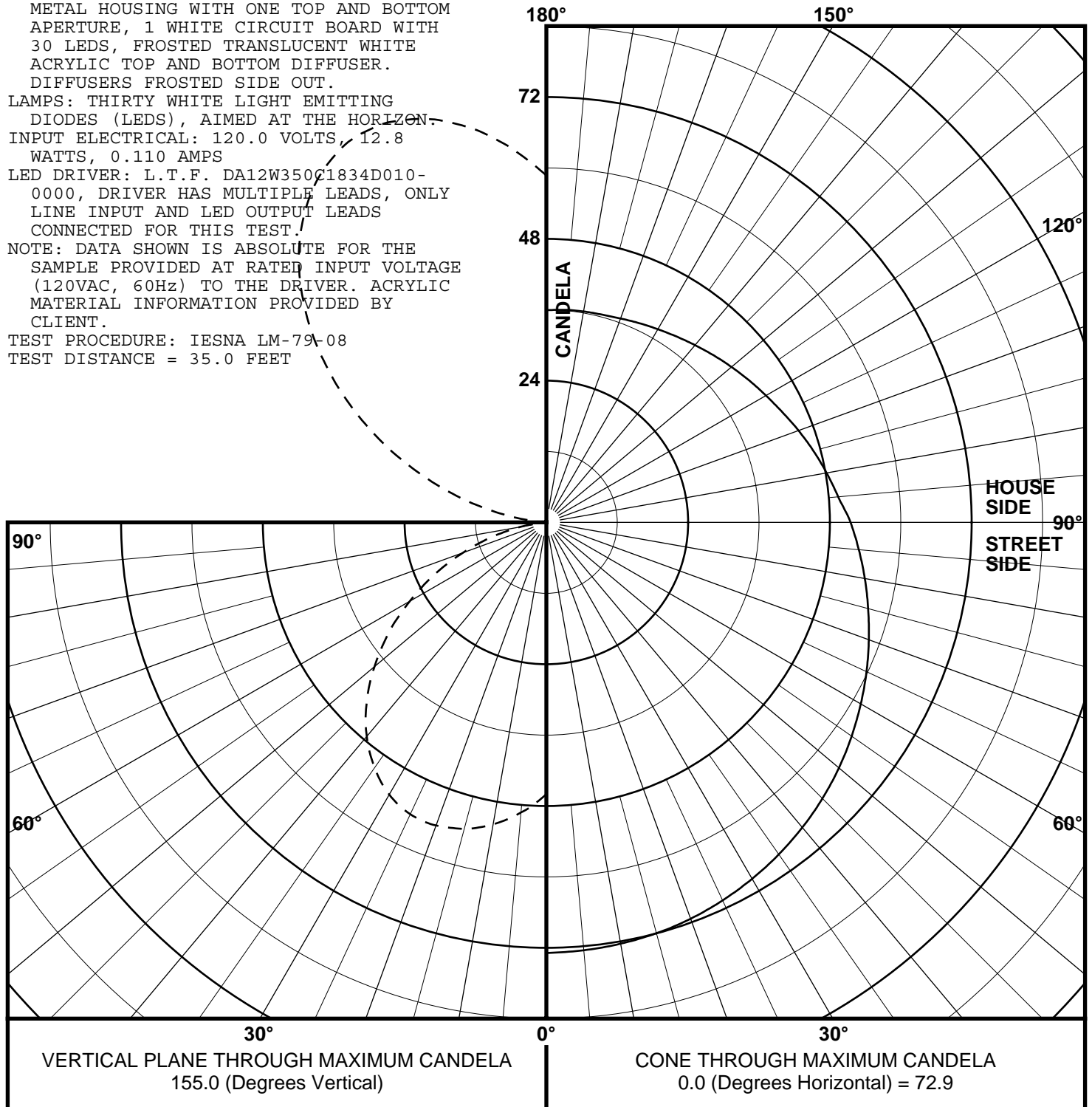
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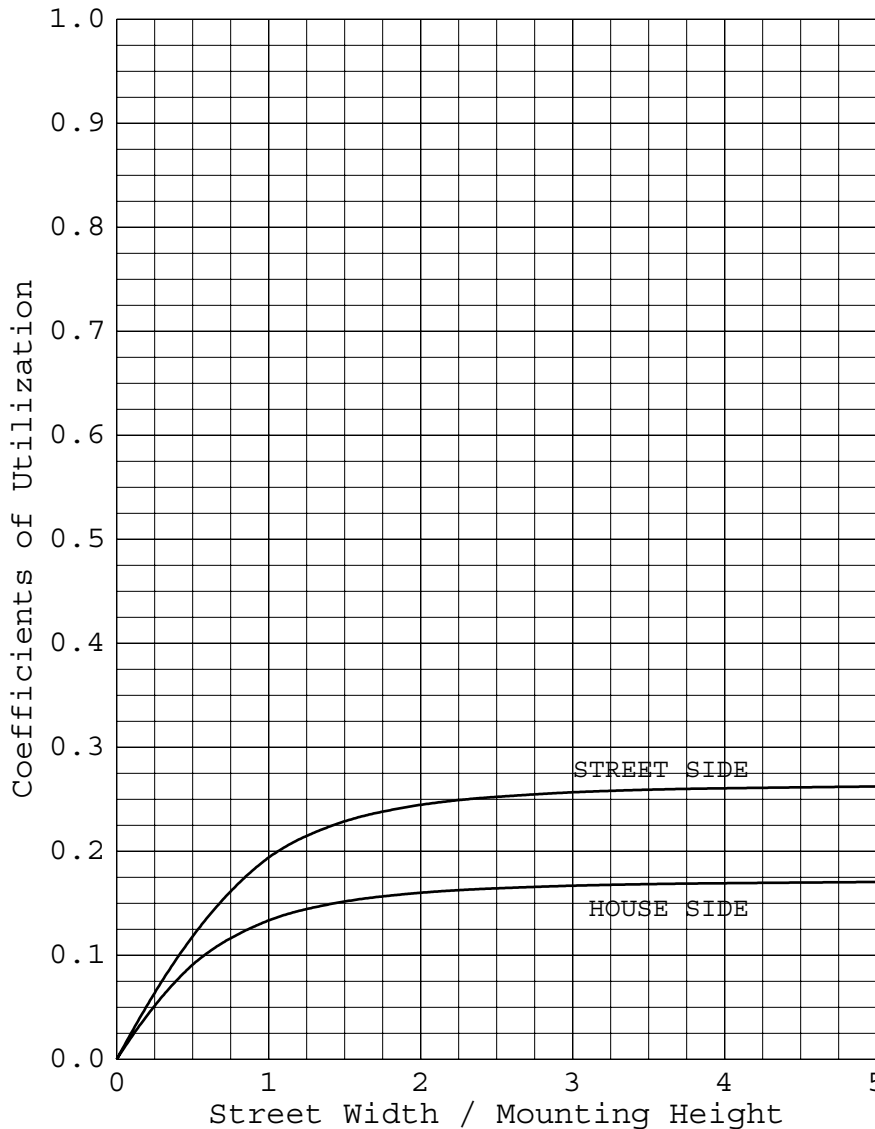
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



REPORT NUMBER: ITL87395-GONIOPHOTOMETRY
ISSUE DATE: 05/23/16
PREPARED FOR: OXYGEN LIGHTING

PAGE: 3 OF 8

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	77	26.4
DOWNWARD HOUSE SIDE	50	17.2
DOWNWARD TOTAL	127	43.6
UPWARD STREET SIDE	103	35.4
UPWARD HOUSE SIDE	61	20.9
UPWARD TOTAL	164	56.4
TOTAL FLUX	291	100.0

EFFICACY = 22.7 lm/W

ALL CANDELA AND LUMENS IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.



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ISSUE DATE: 05/23/16
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PAGE: 4 OF 8

FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-11, LUMINAIRE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	77.	26.4	
FL (0- 30)	20.6	7.1	
FM (30- 60)	41.3	14.2	
FH (60- 80)	14.0	4.8	G0
FVH(80- 90)	0.9	0.3	G0
BACK LIGHT	50.	17.2	
BL (0- 30)	15.2	5.2	B0
BM (30- 60)	25.1	8.6	B0
BH (60- 80)	9.0	3.1	B0 G0
BVH(80- 90)	0.8	0.3	G0
UPLIGHT	164.	56.4	
UL (90-100)	2.2	0.7	U1
UH (100-180)	161.7	55.6	U3
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	291.	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(PER ADDENDUM A FOR IESNA TM-15-11)

BUG RATING: B0 U3 G0



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PAGE: 5 OF 8

CANDELA TABULATION

	STREET SIDE		LATERAL ANGLE									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	
	180.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
	175.0	63.3	63.3	63.1	62.8	62.4	61.9	61.2	60.5	59.6	58.8	58.4
	165.0	70.5	70.5	70.0	69.0	67.7	66.1	64.0	61.8	59.5	57.2	56.1
	155.0 <<	72.9	72.7	72.0	70.6	68.6	66.1	63.1	59.8	56.4	53.1	51.5
	145.0	68.9	68.8	68.0	66.4	64.1	61.2	57.9	54.3	50.5	46.8	45.0
	135.0	59.1	58.8	58.2	56.7	54.7	52.2	49.0	45.8	42.2	38.9	37.1
	125.0	45.1	44.8	44.4	43.5	41.9	40.0	37.5	35.0	32.5	29.7	28.4
	115.0	29.3	29.0	28.8	28.4	27.5	26.2	24.8	23.2	21.6	19.9	19.0
	105.0	13.7	13.8	13.5	13.4	13.1	12.6	12.3	11.6	10.9	10.1	9.7
	95.0	1.3	1.2	1.3	1.4	1.6	1.7	2.0	2.1	2.1	2.2	2.1
	92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.7	0.6
	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.6
	85.0	0.6	0.6	0.7	0.8	1.0	1.1	1.3	1.5	1.6	1.8	1.7
V	82.5	2.4	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.0	3.0	3.0
E	80.0	4.5	4.4	4.5	4.6	4.7	4.7	4.7	4.7	4.6	4.5	4.4
R	77.5	6.9	6.8	6.9	6.7	6.9	6.8	6.6	6.6	6.3	6.2	6.0
T	75.0	9.5	9.4	9.5	9.3	9.3	9.1	8.8	8.7	8.2	7.9	7.7
I	72.5	12.2	12.1	12.2	11.9	11.8	11.5	11.1	10.8	10.2	9.8	9.4
C	70.0	15.0	14.9	15.0	14.6	14.4	14.0	13.4	13.0	12.2	11.5	11.2
A	67.5	18.0	17.9	17.9	17.5	17.2	16.6	15.9	15.3	14.3	13.5	13.0
L	65.0	20.9	20.8	20.8	20.3	19.9	19.1	18.3	17.5	16.4	15.4	14.8
	62.5	23.8	23.8	23.7	23.1	22.6	21.7	20.8	19.8	18.5	17.3	16.6
A	60.0	26.7	26.7	26.6	26.0	25.3	24.3	23.2	21.9	20.6	19.2	18.5
N	57.5	29.7	29.7	29.5	28.8	27.9	26.8	25.6	24.2	22.7	21.1	20.3
G	55.0	32.6	32.5	32.2	31.5	30.5	29.3	28.0	26.4	24.7	23.0	22.1
L	52.5	35.3	35.2	34.9	34.2	33.1	31.8	30.2	28.5	26.6	24.8	23.8
E	50.0	38.0	37.9	37.5	36.7	35.5	34.1	32.4	30.6	28.6	26.6	25.6
	47.5	40.6	40.4	40.0	39.2	38.0	36.4	34.6	32.6	30.5	28.3	27.3
	45.0	43.0	42.8	42.3	41.5	40.3	38.5	36.6	34.5	32.3	30.0	28.9
	42.5	45.3	45.1	44.6	43.8	42.4	40.5	38.6	36.3	34.0	31.7	30.5
	40.0	47.3	47.2	46.6	45.7	44.3	42.5	40.4	38.0	35.7	33.3	32.0
	37.5	49.1	49.0	48.5	47.5	46.1	44.2	42.1	39.7	37.3	34.9	33.6
	35.0	50.7	50.6	50.0	49.1	47.6	45.7	43.6	41.2	38.7	36.3	35.0
	32.5	52.1	52.1	51.5	50.5	49.0	47.1	45.0	42.6	40.1	37.7	36.4
	30.0	53.2	53.1	52.5	51.6	50.1	48.2	46.1	43.8	41.4	39.0	37.8
	25.0	54.5	54.4	53.9	52.9	51.6	49.9	47.9	45.7	43.5	41.2	40.1
	20.0	54.6	54.6	54.1	53.3	52.1	50.6	48.9	47.1	45.2	43.1	42.2
	15.0	53.7	53.6	53.3	52.6	51.7	50.5	49.2	47.8	46.2	44.6	43.9
	10.0	51.9	51.7	51.6	51.1	50.5	49.7	48.8	47.8	46.7	45.7	45.1
	5.0	49.3	49.1	49.0	48.8	48.5	48.2	47.7	47.2	46.6	46.1	45.8
	0.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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PAGE: 6 OF 8

CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE							
	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
180.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
175.0	57.9	57.3	56.4	55.8	55.2	54.7	54.4	54.0	53.9	54.1
165.0	54.8	52.7	50.7	49.1	47.6	46.4	45.5	44.8	44.5	44.5
155.0 <<	49.6	46.8	44.1	41.9	40.0	38.4	37.2	36.4	36.1	35.9
145.0	43.1	39.9	37.1	34.8	32.8	31.2	30.0	29.2	28.9	28.9
135.0	35.4	32.6	30.0	27.9	26.0	24.7	23.7	23.1	22.7	22.7
125.0	27.0	24.7	22.7	20.9	19.6	18.4	17.7	17.2	16.9	17.0
115.0	18.1	16.5	15.2	14.0	13.0	12.3	11.8	11.5	11.2	11.3
105.0	9.4	8.6	7.8	7.2	6.7	6.4	6.0	5.8	5.8	5.8
95.0	2.1	1.9	1.7	1.6	1.5	1.4	1.2	1.2	1.2	1.2
92.5	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.4	0.3
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.5	0.4
85.0	1.7	1.7	1.6	1.5	1.4	1.4	1.3	1.3	1.3	1.3
V 82.5	2.9	2.8	2.7	2.5	2.4	2.3	2.2	2.2	2.2	2.1
E 80.0	4.3	4.1	3.9	3.7	3.5	3.3	3.3	3.2	3.2	3.1
R 77.5	5.8	5.5	5.2	4.9	4.7	4.5	4.4	4.3	4.2	4.2
T 75.0	7.4	7.1	6.7	6.3	5.9	5.7	5.6	5.4	5.3	5.3
I 72.5	9.1	8.6	8.1	7.6	7.2	6.9	6.7	6.6	6.5	6.5
C 70.0	10.8	10.2	9.5	9.0	8.5	8.1	7.9	7.8	7.6	7.6
A 67.5	12.6	11.9	11.0	10.4	9.9	9.4	9.2	8.9	8.8	8.8
L 65.0	14.3	13.4	12.5	11.8	11.1	10.7	10.3	10.1	10.0	10.0
62.5	16.1	15.1	14.0	13.2	12.5	12.0	11.6	11.3	11.2	11.1
A 60.0	17.8	16.6	15.5	14.5	13.8	13.2	12.8	12.5	12.4	12.3
N 57.5	19.6	18.2	17.0	16.0	15.1	14.5	14.0	13.7	13.5	13.5
G 55.0	21.3	19.8	18.5	17.3	16.4	15.7	15.2	14.9	14.7	14.7
L 52.5	23.0	21.4	19.9	18.7	17.7	16.9	16.4	16.0	15.9	15.8
E 50.0	24.6	22.9	21.4	20.1	19.0	18.2	17.6	17.2	17.0	17.0
47.5	26.2	24.4	22.9	21.4	20.3	19.4	18.8	18.4	18.2	18.1
45.0	27.9	25.9	24.3	22.8	21.6	20.6	20.0	19.6	19.4	19.3
42.5	29.4	27.4	25.7	24.2	22.9	21.9	21.3	20.8	20.6	20.5
40.0	31.0	28.9	27.1	25.6	24.2	23.2	22.5	22.0	21.8	21.8
37.5	32.5	30.4	28.5	27.0	25.5	24.5	23.8	23.3	23.1	23.0
35.0	33.9	31.7	29.8	28.3	26.9	25.8	25.1	24.5	24.3	24.3
32.5	35.3	33.2	31.3	29.7	28.3	27.3	26.4	26.0	25.6	25.6
30.0	36.6	34.6	32.7	31.1	29.7	28.6	27.8	27.3	27.0	27.0
25.0	39.1	37.1	35.4	33.8	32.5	31.4	30.7	30.2	29.9	29.9
20.0	41.3	39.6	38.0	36.5	35.4	34.4	33.7	33.3	33.0	32.9
15.0	43.1	41.7	40.4	39.2	38.3	37.4	36.8	36.5	36.2	36.2
10.0	44.6	43.5	42.6	41.7	41.0	40.4	39.9	39.7	39.4	39.3
5.0	45.5	45.0	44.4	44.0	43.6	43.2	43.0	42.9	42.7	42.8
0.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0

CONE OF MAXIMUM CANDELA



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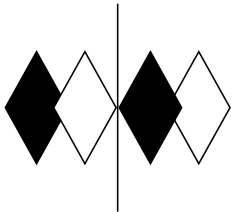
PAGE: 7 OF 8

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	1
5- 10	3
10- 15	5
15- 20	7
20- 25	9
25- 30	10
30- 35	11
35- 40	12
40- 45	12
45- 50	11
50- 55	11
55- 60	10
60- 65	8
65- 70	7
70- 75	5
75- 80	3
80- 85	1
85- 90	0
90- 95	0
95-100	2
100-105	4
105-110	6
110-115	9
115-120	11
120-125	13
125-130	14
130-135	15
135-140	15
140-145	15
145-150	14
150-155	13
155-160	11
160-165	9
165-170	7
170-175	4
175-180	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	4
0- 20	17
0- 30	36
0- 40	59
0- 50	82
0- 60	102
0- 70	117
0- 80	125
0- 90	127
0-100	129
0-110	139
0-120	159
0-130	185
0-140	215
0-150	245
0-160	269
0-170	285
0-180	291



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