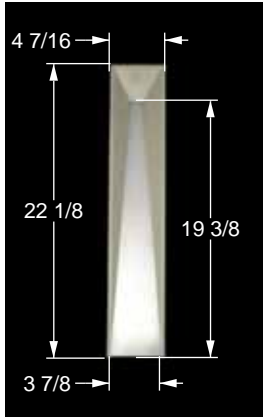




ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
 Values based on 5.5 foot mounting height.

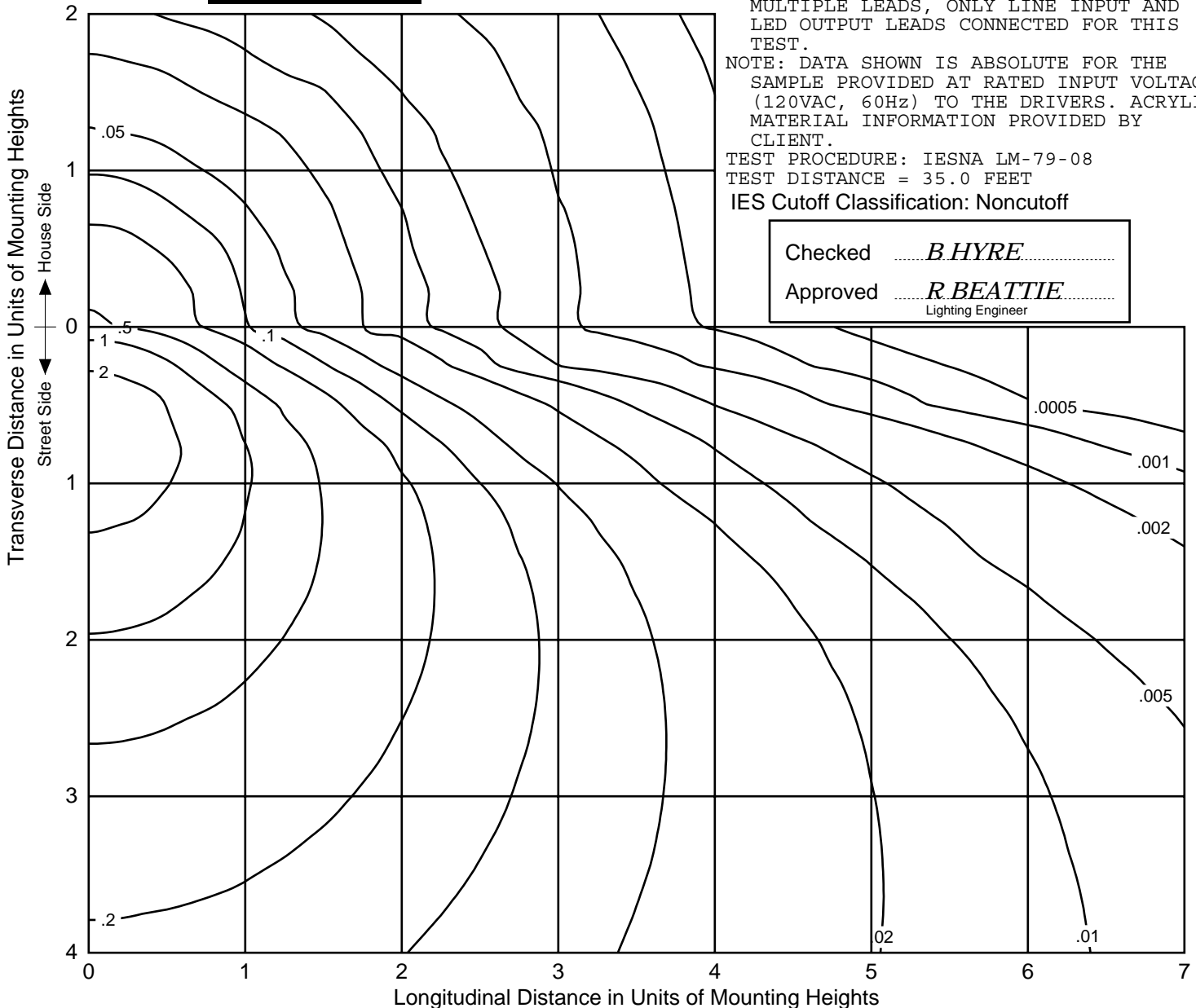


REPORT NUMBER: ITL87370-GONIOPHOTOMETRY
 ISSUE DATE: 04/27/16 PAGE: 1 OF 8
 PREPARED FOR: OXYGEN LIGHTING
 CATALOG NUMBER: 3-731
 LUMINAIRE: FABRICATED WHITE PAINTED METAL WALL MOUNTING PLATE AND DRIVER COVERS, 2 WHITE CIRCUIT BOARDS EACH WITH 30 LEDS, FABRICATED SILVER PAINTED METAL FORWARD HOUSING, FROSTED TRANSLUCENT WHITE ACRYLIC DIFFUSER. DIFFUSER FROSTED SIDE OUT.
 LAMPS: SIXTY WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.
 INPUT ELECTRICAL: 120.0 VOLTS, 25.6 WATTS, 0.219 AMPS
 LED DRIVERS: TWO L.T.F. DA12W350C1834D010-0000, DRIVERS HAVE 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 DRIVERS. ACRYLIC MATERIAL INFORMATION PROVIDED BY CLIENT.

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

IES Cutoff Classification: Noncutoff

Checked	<i>B. HYRE</i>
Approved	<i>R. BEATTIE</i> Lighting Engineer





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LUMINAIRE: FABRICATED WHITE PAINTED METAL WALL MOUNTING PLATE AND DRIVER COVERS, 2 WHITE CIRCUIT BOARDS EACH WITH 30 LEDS, FABRICATED SILVER PAINTED METAL FORWARD HOUSING, FROSTED TRANSLUCENT WHITE ACRYLIC DIFFUSER. DIFFUSER FROSTED SIDE OUT.

LAMPS: SIXTY WHITE LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.

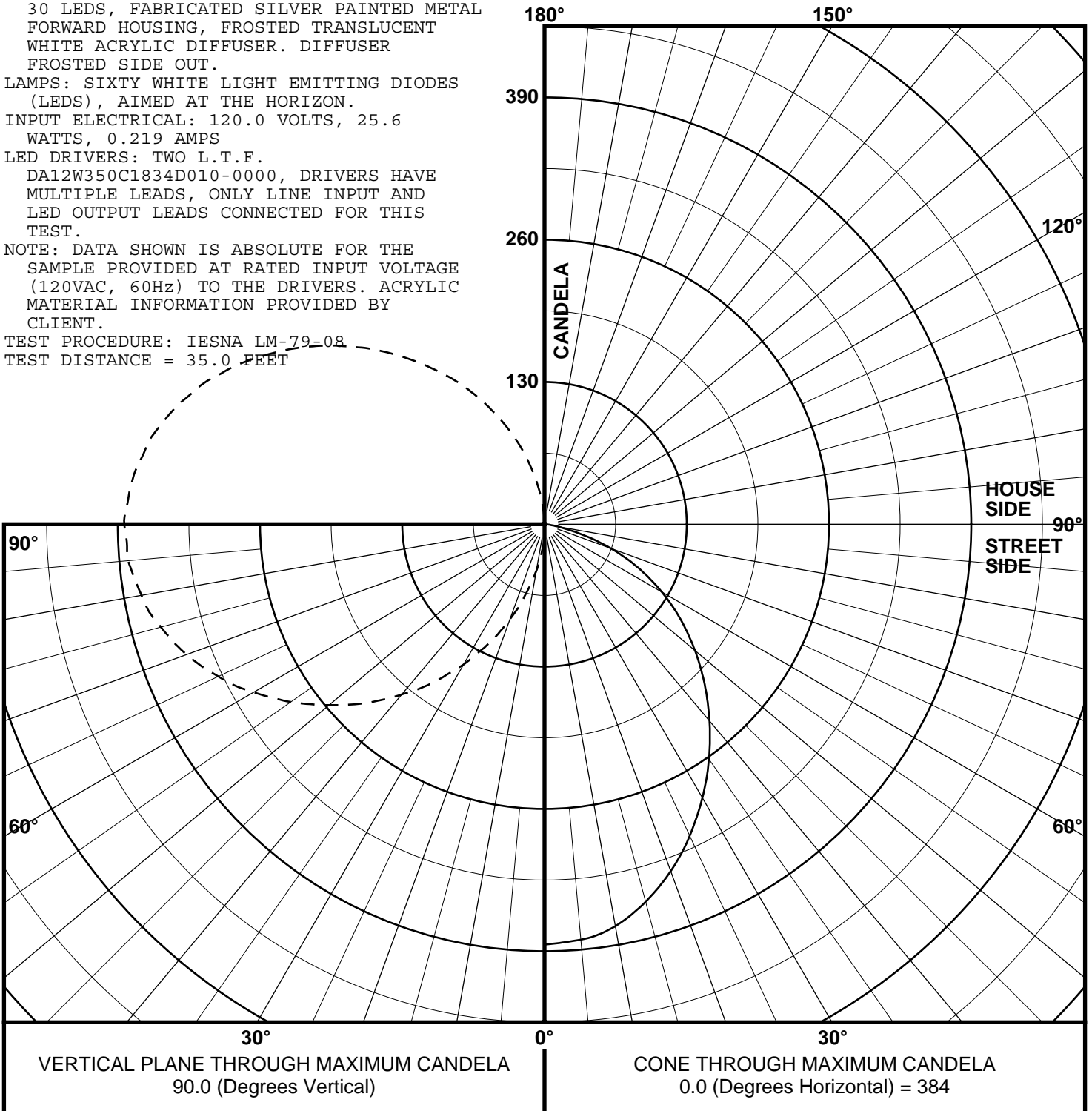
INPUT ELECTRICAL: 120.0 VOLTS, 25.6 WATTS, 0.219 AMPS

LED DRIVERS: TWO L.T.F. DA12W350C1834D010-0000, DRIVERS HAVE 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 DRIVERS. ACRYLIC MATERIAL INFORMATION PROVIDED BY CLIENT.

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

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

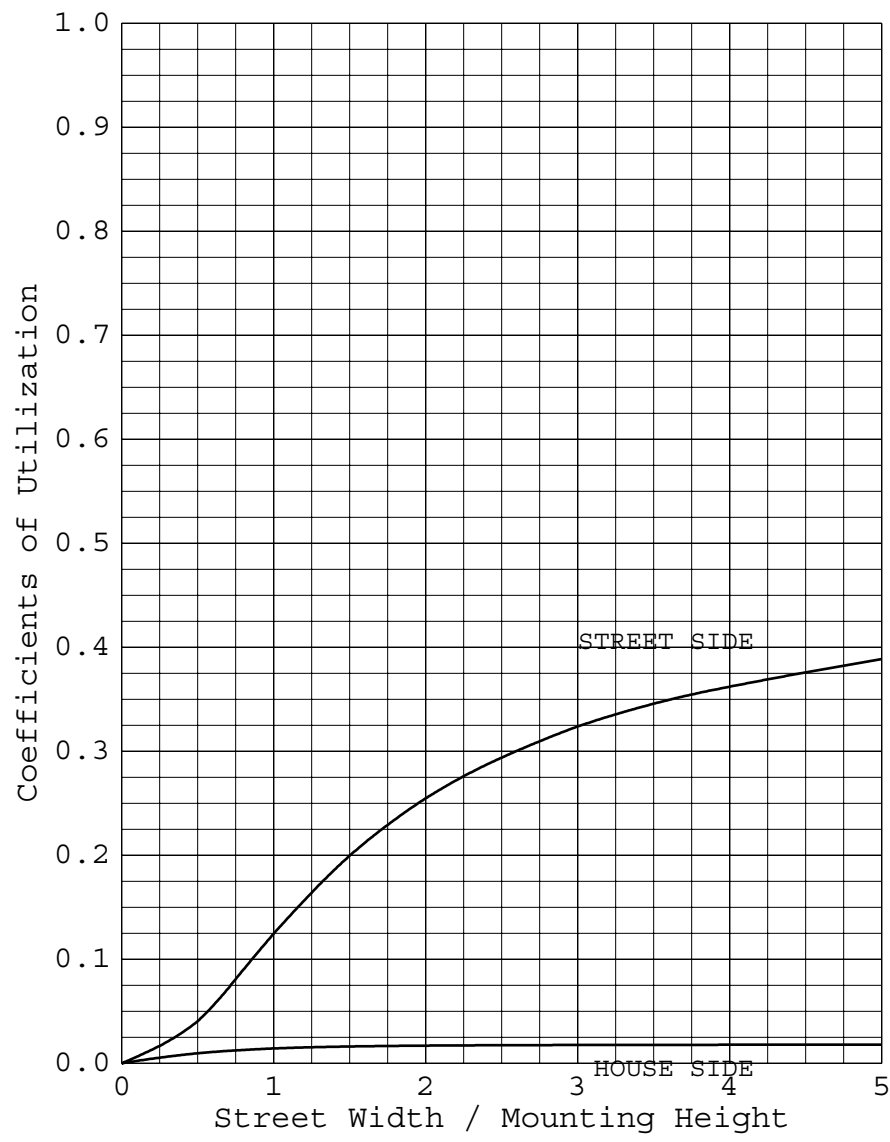




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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	475	49.6
DOWNWARD HOUSE SIDE	17	1.8
DOWNWARD TOTAL	492	51.4
UPWARD STREET SIDE	466	48.6
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	466	48.6
TOTAL FLUX	958	100.0

EFFICACY = 37.4 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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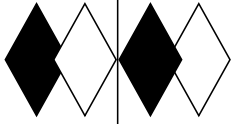
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	475.	49.6	
FL (0- 30)	24.3	2.5	
FM (30- 60)	152.7	15.9	
FH (60- 80)	189.2	19.7	G0
FVH(80- 90)	108.5	11.3	G2
BACK LIGHT	17.	1.8	
BL (0- 30)	5.6	0.6	B0
BM (30- 60)	8.8	0.9	B0
BH (60- 80)	2.7	0.3	B0 G0
BVH(80- 90)	0.2	0.0	G0
UPLIGHT	466.	48.6	
UL (90-100)	108.4	11.3	U3
UH (100-180)	357.6	37.3	U3
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	958.	100.0	

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

BUG RATING: B0 U3 G2



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CANDELA TABULATION

	LATERAL ANGLE										
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	15.	15.	14.	13.	11.	9.	7.	4.	1.	0.	0.
	62.	62.	60.	55.	48.	40.	30.	19.	8.	1.	0.
	116.	116.	112.	102.	90.	75.	57.	36.	14.	1.	0.
	171.	171.	164.	150.	131.	108.	82.	52.	19.	1.	0.
	227.	226.	215.	195.	169.	138.	105.	67.	24.	2.	0.
	280.	279.	264.	237.	203.	164.	123.	78.	28.	2.	0.
	326.	324.	305.	272.	230.	185.	137.	87.	30.	2.	0.
	361.	358.	336.	298.	250.	199.	147.	93.	32.	3.	0.
	380.	377.	353.	312.	260.	206.	152.	95.	33.	3.	0.
	382.	379.	356.	313.	261.	207.	152.	95.	33.	3.	0.
	384.	381.	357.	314.	262.	207.	152.	95.	34.	3.	0.
	382.	380.	355.	313.	261.	207.	151.	95.	34.	3.	0.
	382.	378.	355.	312.	261.	206.	151.	95.	34.	3.	0.
V	378.	375.	351.	310.	259.	205.	150.	94.	34.	3.	1.
E	374.	371.	348.	308.	257.	204.	149.	94.	34.	4.	1.
R	370.	366.	344.	304.	255.	202.	148.	93.	34.	4.	2.
T	363.	360.	339.	300.	252.	200.	147.	92.	34.	5.	2.
I	356.	353.	332.	295.	248.	197.	145.	91.	34.	5.	2.
C	348.	345.	325.	289.	243.	194.	143.	90.	34.	5.	3.
A	339.	337.	317.	282.	238.	190.	140.	89.	34.	6.	4.
L	329.	326.	308.	275.	233.	186.	138.	87.	34.	7.	4.
	319.	316.	299.	267.	227.	182.	134.	85.	34.	7.	5.
A	307.	306.	289.	259.	220.	177.	131.	84.	33.	8.	5.
N	295.	294.	278.	250.	213.	172.	127.	81.	33.	8.	6.
G	283.	281.	267.	241.	206.	166.	124.	79.	33.	9.	7.
L	270.	269.	255.	231.	198.	160.	119.	77.	32.	9.	7.
E	257.	256.	243.	221.	190.	154.	115.	74.	32.	10.	8.
	244.	243.	231.	210.	181.	147.	110.	71.	31.	10.	8.
	231.	230.	219.	199.	172.	140.	105.	68.	30.	11.	9.
	217.	216.	206.	188.	163.	133.	100.	65.	30.	11.	10.
	203.	203.	193.	176.	153.	125.	94.	62.	29.	12.	10.
	190.	189.	180.	165.	143.	117.	89.	59.	28.	12.	11.
	176.	175.	167.	153.	133.	109.	83.	55.	27.	13.	11.
	161.	161.	154.	141.	124.	101.	77.	52.	26.	13.	12.
	148.	147.	141.	129.	113.	93.	71.	49.	26.	14.	13.
	120.	119.	114.	105.	92.	77.	59.	41.	24.	14.	14.
	92.	92.	89.	82.	72.	60.	48.	34.	22.	15.	15.
	66.	66.	64.	60.	53.	45.	37.	28.	20.	16.	16.
	43.	43.	42.	39.	36.	31.	27.	22.	18.	16.	16.
	24.	24.	24.	23.	21.	20.	18.	17.	17.	17.	16.
	17.	17.	17.	17.	17.	17.	17.	17.	17.	17.	17.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
90.0<<	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
87.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
V 82.5	1.	1.	0.	0.	1.	1.	1.	1.	1.	1.
E 80.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
R 77.5	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
T 75.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
I 72.5	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
C 70.0	3.	3.	3.	3.	2.	2.	2.	2.	2.	3.
A 67.5	4.	3.	3.	3.	3.	3.	3.	3.	3.	3.
L 65.0	4.	4.	4.	4.	4.	3.	3.	3.	4.	4.
62.5	5.	4.	4.	4.	4.	4.	4.	4.	4.	4.
A 60.0	5.	5.	5.	5.	5.	4.	4.	4.	5.	5.
N 57.5	6.	5.	5.	5.	5.	5.	5.	5.	5.	5.
G 55.0	6.	6.	6.	6.	6.	5.	5.	5.	5.	6.
L 52.5	7.	7.	6.	6.	6.	6.	6.	6.	6.	6.
E 50.0	8.	7.	7.	7.	7.	6.	6.	6.	7.	7.
47.5	8.	8.	8.	7.	7.	7.	7.	7.	7.	7.
45.0	9.	8.	8.	8.	8.	8.	8.	8.	8.	8.
42.5	9.	9.	9.	9.	8.	8.	8.	8.	8.	8.
40.0	10.	10.	9.	9.	9.	9.	9.	9.	9.	9.
37.5	11.	10.	10.	10.	10.	9.	9.	9.	9.	9.
35.0	11.	11.	10.	10.	10.	10.	10.	10.	10.	10.
32.5	12.	11.	11.	11.	11.	10.	10.	10.	10.	10.
30.0	12.	12.	12.	11.	11.	11.	11.	11.	11.	11.
25.0	13.	13.	13.	12.	12.	12.	12.	12.	12.	12.
20.0	14.	14.	14.	14.	13.	13.	13.	13.	13.	13.
15.0	15.	15.	15.	15.	14.	14.	14.	14.	14.	14.
10.0	16.	16.	16.	15.	15.	15.	15.	15.	15.	15.
5.0	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.
0.0	17.	17.	17.	17.	17.	17.	17.	17.	17.	17.

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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	1
10- 15	3
15- 20	5
20- 25	8
25- 30	12
30- 35	15
35- 40	20
40- 45	24
45- 50	29
50- 55	34
55- 60	39
60- 65	43
65- 70	47
70- 75	50
75- 80	52
80- 85	54
85- 90	55
90- 95	55
95-100	54
100-105	52
105-110	49
110-115	45
115-120	41
120-125	37
125-130	32
130-135	27
135-140	22
140-145	18
145-150	13
150-155	9
155-160	6
160-165	4
165-170	2
170-175	1
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	2
0- 20	10
0- 30	30
0- 40	65
0- 50	119
0- 60	191
0- 70	281
0- 80	383
0- 90	492
0-100	600
0-110	701
0-120	788
0-130	857
0-140	906
0-150	936
0-160	952
0-170	957
0-180	958



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