

**itl boulder**  
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

PHONE: (303) 442-1255

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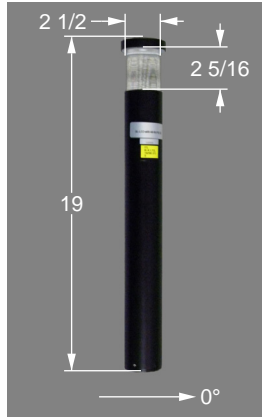
**NVLAP**  
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.

4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 1 foot mounting height.



REPORT NUMBER: ITL86262

ISSUE DATE: 01/13/16

PAGE: 1 OF 7

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: GL-LED-e66-E-12

LUMINAIRE: FABRICATED CYLINDRICAL BLACK PAINTED METAL MOUNTING STEM, MACHINED METAL CIRCUIT BOARD MOUNTING BASE, 1 BLACK CIRCUIT BOARD WITH 3 LEDS, ONE CLEAR CONICAL PLASTIC OPTIC PER LED WITH FROSTED SURFACE OPPOSITE LED AND SEMI-HEMISPHERICAL RECESSED CENTER TOWARD LED, MOLDED BLACK PLASTIC OPTIC MOUNTING FRAME, MACHINED BLACK PAINTED METAL TOP HOUSING WITH CLEAR CYLINDRICAL PLASTIC LENS WITH FROSTED TOP AND BOTTOM AND WHITE PAINTED METAL TOP CAP.

LAMPS: THREE WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-DOWN POSITION.

INPUT ELECTRICAL: 12.0 VOLTS, 6.56 WATTS, 0.608 AMPS

LED DRIVER: B-K LIGHTING 524438/400188-L, 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 (12VAC, 60Hz) TO THE DRIVER. POTENTIOMETER ON THE LED CIRCUIT BOARD SET TO POSITION "9" FOR THIS TEST.

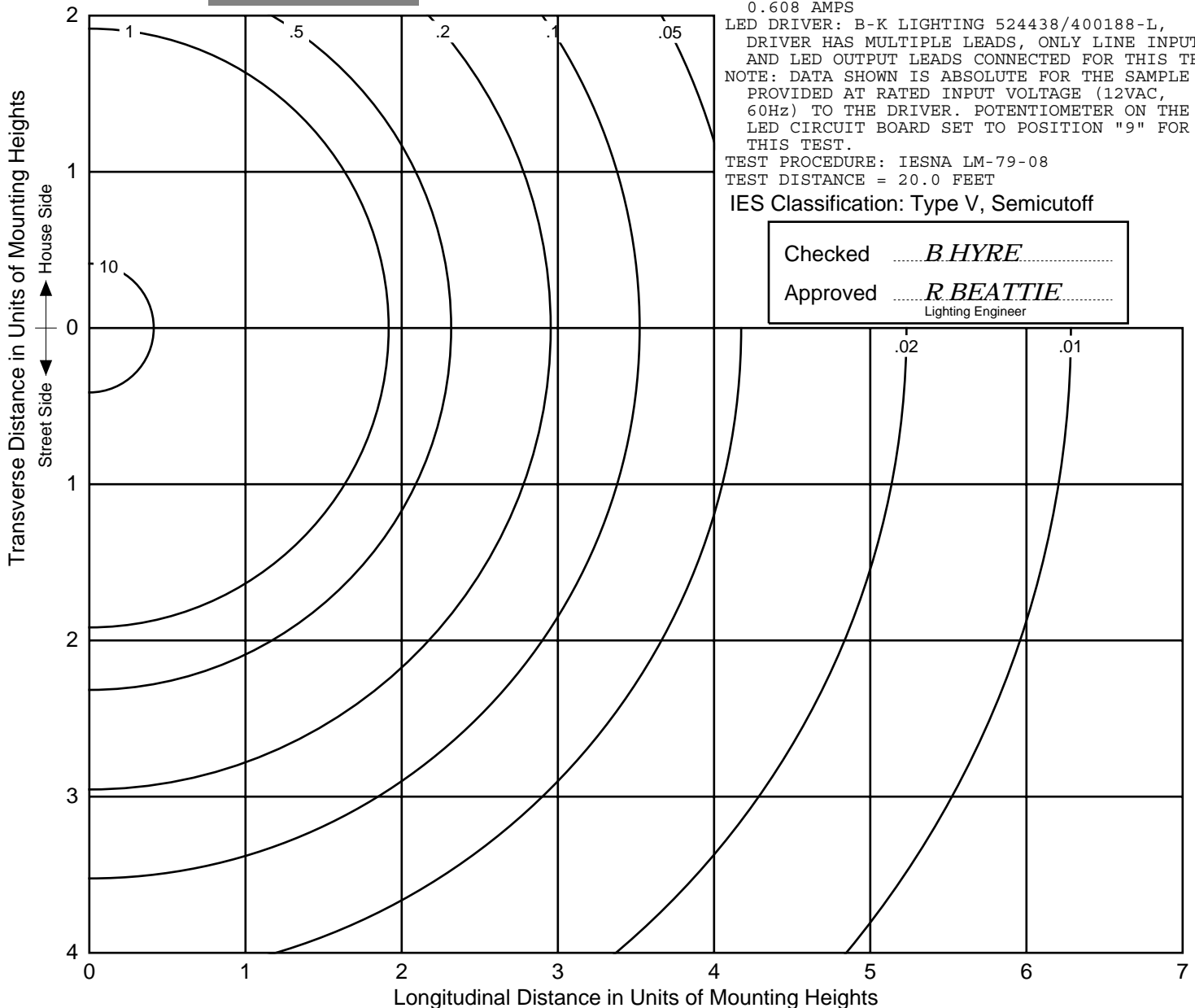
TEST PROCEDURE: IESNA LM-79-08

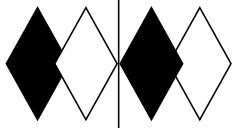
TEST DISTANCE = 20.0 FEET

IES Classification: Type V, Semicutoff

Checked B. HYRE

Approved R. BEATTIE  
Lighting Engineer





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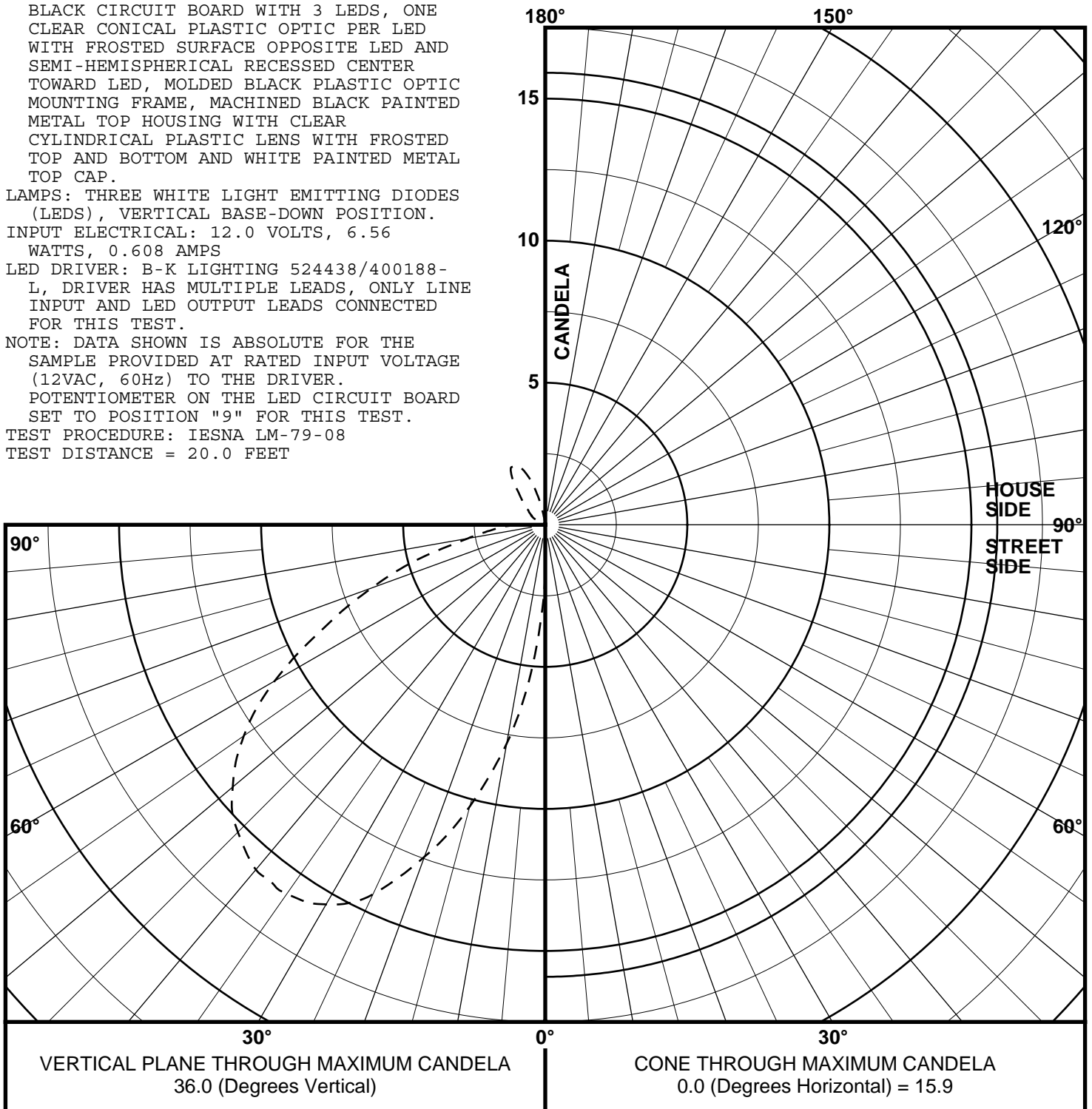
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TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

#### MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

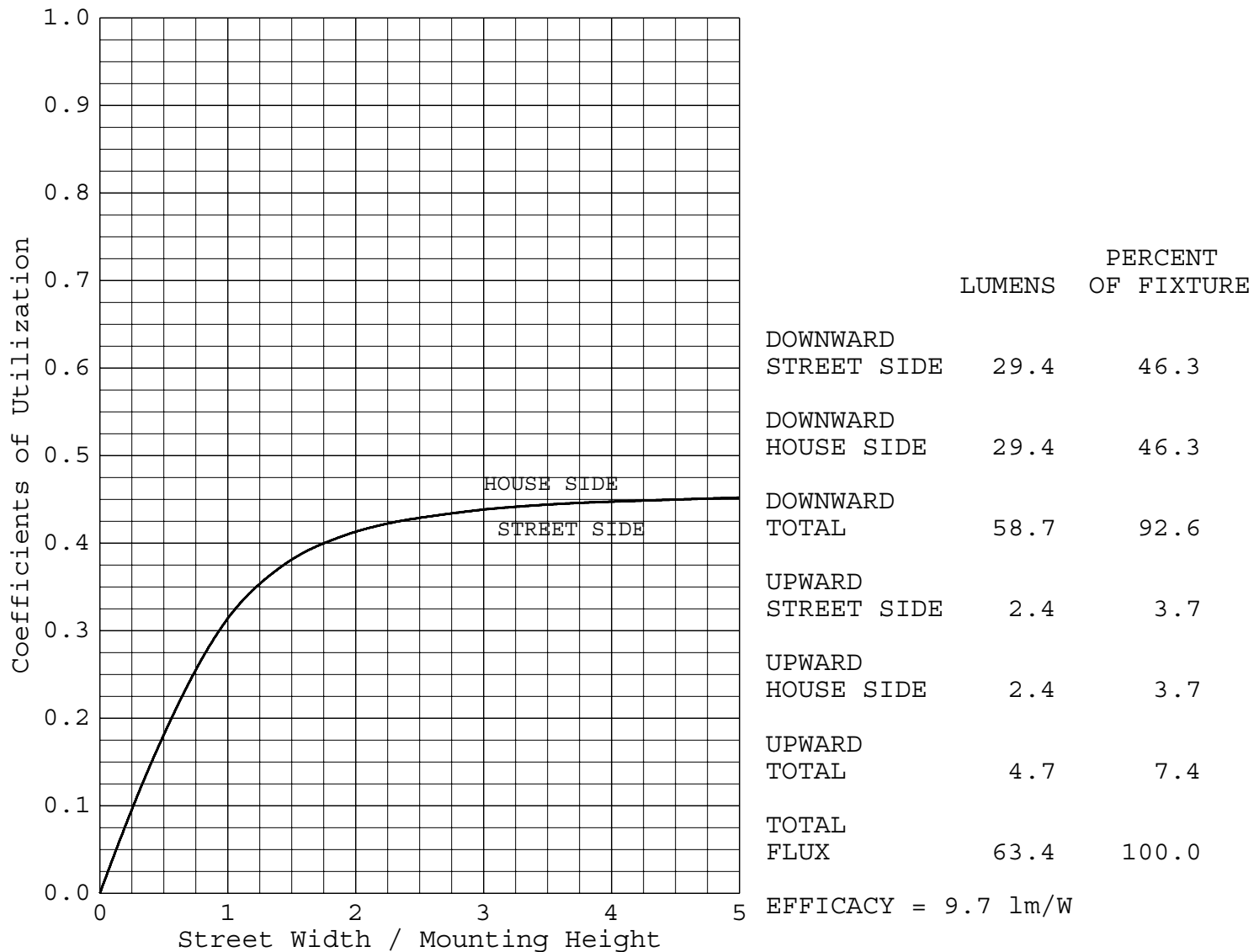




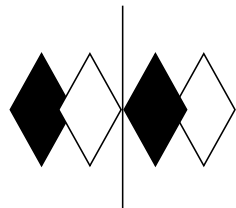
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



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	29.4	46.3	
FL ( 0- 30)	5.1	8.0	
FM ( 30- 60)	16.6	26.2	
FH ( 60- 80)	6.7	10.6	G0
FVH( 80- 90)	1.0	1.6	G0
BACK LIGHT	29.4	46.3	
BL ( 0- 30)	5.1	8.0	B0
BM ( 30- 60)	16.6	26.2	B0
BH ( 60- 80)	6.7	10.6	B0 G0
BVH( 80- 90)	1.0	1.6	G0
UPLIGHT	4.7	7.4	
UL ( 90-100)	0.2	0.4	U1
UH (100-180)	4.5	7.1	U1
TRAPPED LIGHT	0.0	0.0	
TOTAL FLUX	63.4	100.0	

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

BUG RATING: B0 U1 G0



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# CANDELA TABULATION

## TYPE V

	180.0	0.0
	175.0	0.0
	165.0	1.1
	155.0	2.3
	145.0	2.0
	135.0	1.0
	125.0	0.6
	115.0	0.3
	105.0	0.2
	95.0	0.1
	92.5	0.2
	90.0	0.6
	87.5	1.5
	85.0	1.8
V	82.5	2.2
E	80.0	2.8
R	77.5	3.5
T	75.0	4.6
I	72.5	5.6
C	70.0	6.5
A	67.5	7.6
L	65.0	8.6
	62.5	9.8
A	60.0	11.0
N	57.5	12.1
G	55.0	13.0
L	52.5	13.7
E	50.0	14.4
	47.5	15.0
	45.0	15.3
	42.5	15.6
	40.0	15.9
	37.5	15.8
	36.0<<	15.9
	35.0	15.9
	30.0	15.4
	25.0	14.4
	20.0	12.4
	15.0	10.3
	10.0	7.8
	5.0	4.9
	0.0	1.8

CONE OF MAXIMUM CANDELA



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	0.1
5- 10	0.5
10- 15	1.1
15- 20	1.9
20- 25	2.8
25- 30	3.8
30- 35	4.6
35- 40	5.3
40- 45	5.8
45- 50	6.0
50- 55	6.0
55- 60	5.6
60- 65	4.8
65- 70	3.8
70- 75	2.9
75- 80	1.9
80- 85	1.2
85- 90	0.7
90- 95	0.2
95-100	0.1
100-105	0.1
105-110	0.1
110-115	0.1
115-120	0.2
120-125	0.3
125-130	0.3
130-135	0.4
135-140	0.5
140-145	0.6
145-150	0.7
150-155	0.6
155-160	0.4
160-165	0.3
165-170	0.1
170-175	0.0
175-180	0.0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	0.6
0- 20	3.5
0- 30	10.1
0- 40	20.0
0- 50	31.8
0- 60	43.3
0- 70	51.9
0- 80	56.7
0- 90	58.7
0-100	58.9
0-110	59.1
0-120	59.4
0-130	60.0
0-140	60.8
0-150	62.0
0-160	63.1
0-170	63.4
0-180	63.4



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