

# itl boulder

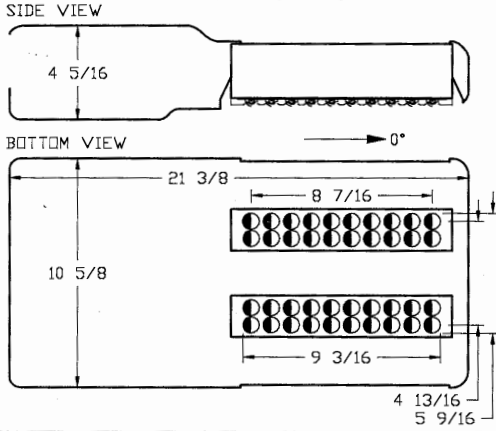
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.  
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 20 foot mounting height.



REPORT NUMBER: ITL63996  
DATE: 01/07/10  
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING  
CATALOG NUMBER: STR-LWY-2MB-\*\*-04-C-UL-WH or BXSL0G04C-UW (525mA)  
LUMINAIRE: CAST WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED METAL ACCESS DOOR, CAST WHITE PAINTED METAL FORWARD HOUSING PIECE, TWO CIRCUIT BOARDS EACH WITH 20 LEDS AND CAST WHITE PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED, ONE SMALL RUBBER HOUSE SIDE SHIELD BELOW EACH LED.  
LAMP: FORTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.  
TOTAL INPUT WATTS = 70.3 AT 240.0 VOLTS  
LED DRIVER: ADVANCE LED-INTA-700C-140-F30

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE LED DRIVER. CLIENT STATES LEDES HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS.  
TEST PROCEDURE: IESNA LM-79-08  
TEST DISTANCE = 25.25 FEET

IES Classification: Medium, Type II

----- 1/2 Maximum Candela trace

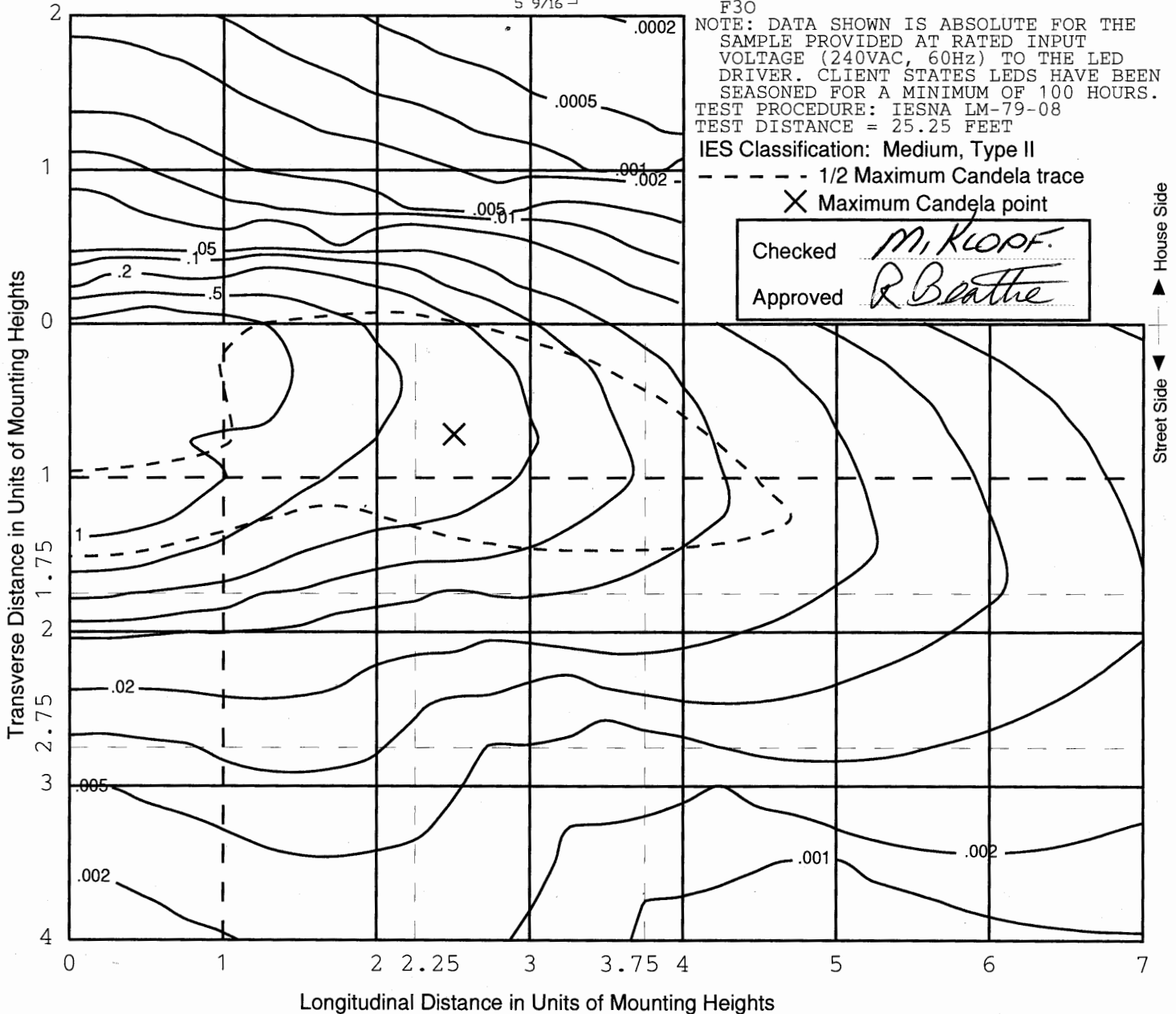
X Maximum Candela point

Checked

*M. Klopf.*

Approved

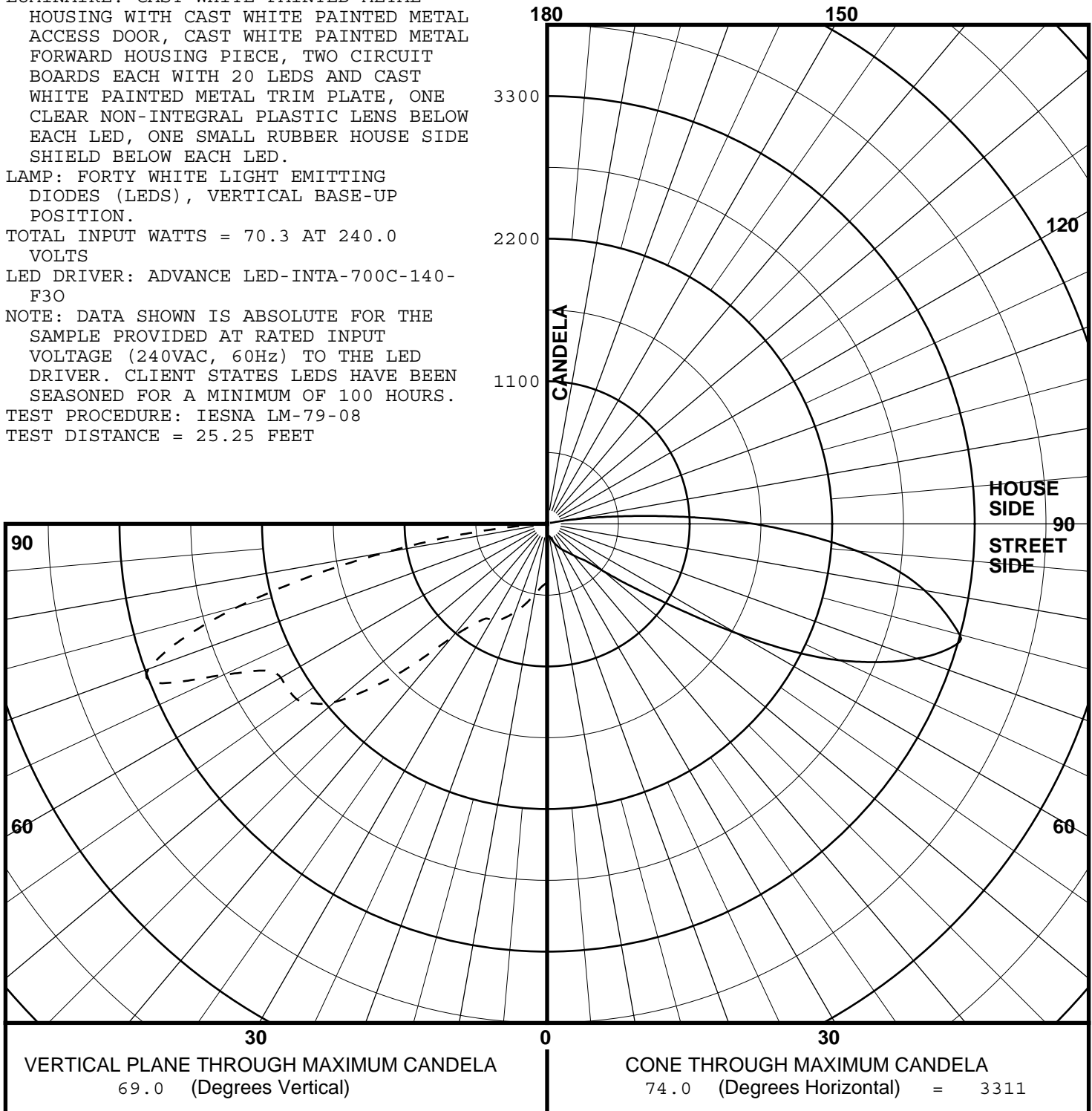
*R. Beattie*





REPORT NUMBER: ITL63996  
 DATE: 01/07/10  
 PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING  
 CATALOG NUMBER: STR-LWY-2MB-\*\*-04-C-UL-WH or BXSL0G04C-UW (525mA)  
 LUMINAIRE: CAST WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED METAL ACCESS DOOR, CAST WHITE PAINTED METAL FORWARD HOUSING PIECE, TWO CIRCUIT BOARDS EACH WITH 20 LEDS AND CAST WHITE PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED, ONE SMALL RUBBER HOUSE SIDE SHIELD BELOW EACH LED.  
 LAMP: FORTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.  
 TOTAL INPUT WATTS = 70.3 AT 240.0 VOLTS  
 LED DRIVER: ADVANCE LED-INTA-700C-140-F30  
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE LED DRIVER. CLIENT STATES LEDES HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS.  
 TEST PROCEDURE: IESNA LM-79-08  
 TEST DISTANCE = 25.25 FEET

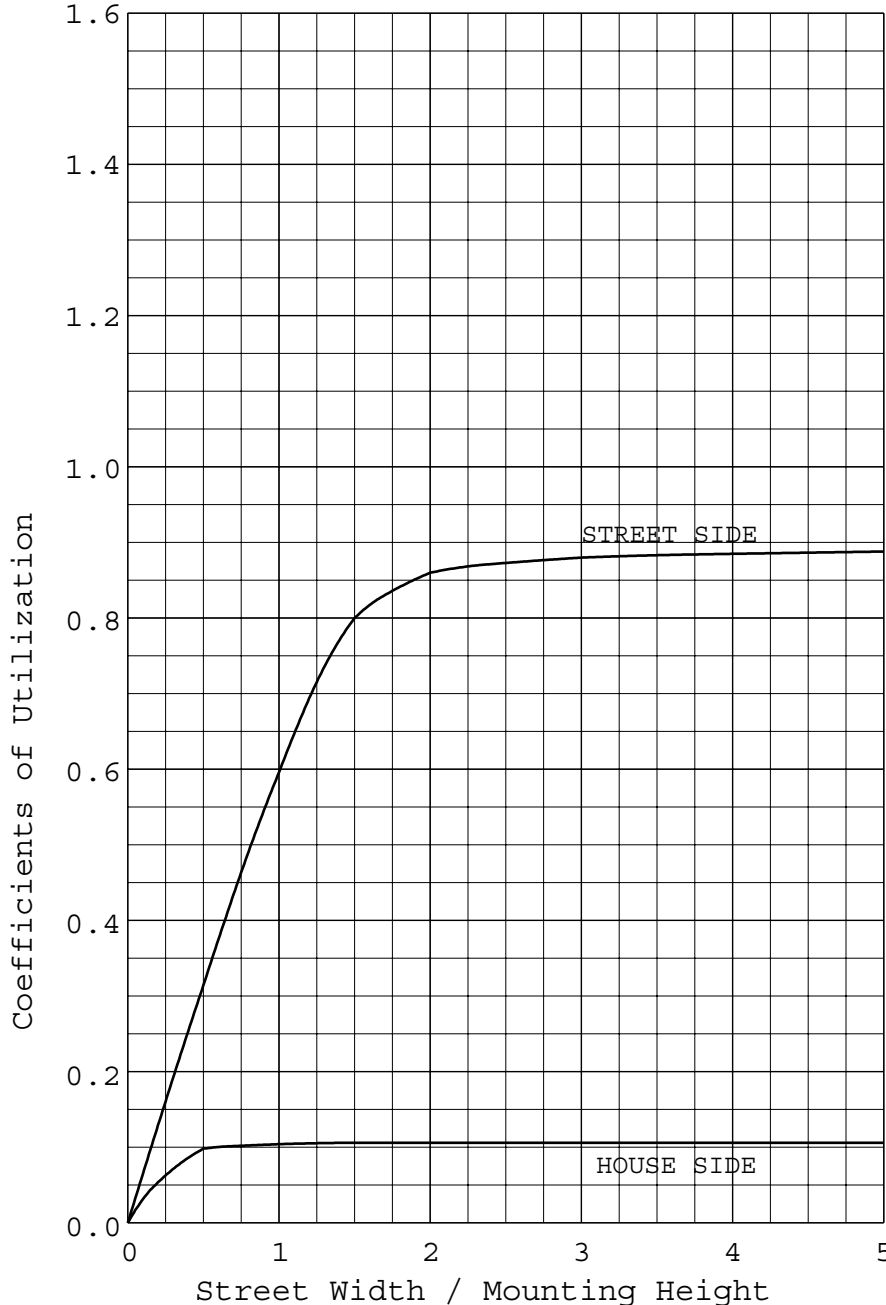
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





REPORT NUMBER: ITL63996  
 DATE: 01/07/10  
 PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	3130.	88.6
DOWNWARD HOUSE SIDE	404.	11.4
DOWNWARD TOTAL	3534.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	3534.	100.0
EFFICACY = 50.3 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.



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

INDEPENDENT TESTING LABORATORIES, INC.  
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

REPORT NUMBER: ITL63996

DATE: 01/07/10

PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-07, LUMINAIRE CLASSIFICATION  
SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE
FORWARD LIGHT	3130.	88.6
FL ( 0- 30)		8.4
FM ( 30- 60)		49.8
FH ( 60- 80)		28.6
FVH( 80- 90)		1.8
BACK LIGHT	404.	11.4
BL ( 0- 30)		2.9
BM ( 30- 60)		5.5
BH ( 60- 80)		2.9
BVH( 80- 90)		0.1
UPLIGHT	0.	0.0
UL ( 90-100)		0.0
UH (100-180)		0.0
TRAPPED LIGHT	0.	0.0
TOTAL FLUX	3534.	100.0



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

INDEPENDENT TESTING LABORATORIES, INC.  
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL63996

DATE: 01/07/10

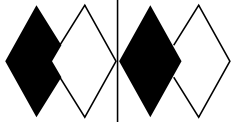
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CANDELA TABULATION

	STREET SIDE				LATERAL ANGLE							
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	74.0	75.0	85.0	
	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.	2.	5.	3.	3.	9.	60.	87.	87.	41.
	85.0	2.	2.	9.	25.	19.	14.	24.	173.	304.	309.	165.
V	82.5	5.	6.	23.	51.	52.	30.	52.	376.	750.	754.	431.
E	80.0	19.	21.	38.	75.	82.	53.	92.	665.	1266.	1274.	718.
R	77.5	28.	30.	52.	99.	120.	87.	163.	1021.	1878.	1888.	1106.
T	75.0	36.	39.	69.	126.	165.	134.	293.	1450.	2464.	2468.	1561.
I	72.5	54.	55.	89.	153.	204.	207.	511.	1949.	2951.	2948.	1978.
C	70.0	82.	82.	107.	177.	246.	328.	818.	2386.	3272.	3266.	2329.
A	69.0<<	93.	93.	118.	190.	264.	388.	951.	2491.	3311.	3296.	2402.
L	67.5	123.	123.	147.	217.	319.	556.	1176.	2551.	3214.	3204.	2583.
	65.0	180.	180.	201.	300.	519.	943.	1539.	2460.	2758.	2755.	2620.
A	62.5	285.	289.	363.	590.	966.	1393.	1859.	2433.	2453.	2442.	2410.
N	60.0	783.	794.	922.	1195.	1523.	1800.	2057.	2391.	2373.	2365.	2234.
G	57.5	1495.	1499.	1584.	1747.	1944.	2079.	2076.	2279.	2373.	2364.	2129.
L	55.0	1925.	1925.	1977.	2087.	2204.	2130.	1898.	2149.	2359.	2350.	2051.
E	52.5	2145.	2146.	2188.	2245.	2223.	1930.	1612.	2020.	2276.	2273.	1990.
	50.0	2220.	2222.	2218.	2151.	1960.	1601.	1384.	1845.	2137.	2139.	1911.
	47.5	2018.	2013.	1971.	1849.	1626.	1311.	1221.	1615.	1908.	1912.	1771.
	45.0	1760.	1755.	1705.	1572.	1354.	1140.	1086.	1384.	1652.	1659.	1603.
	42.5	1527.	1524.	1477.	1352.	1185.	1031.	975.	1159.	1373.	1382.	1420.
	40.0	1345.	1340.	1301.	1201.	1062.	929.	883.	982.	1147.	1159.	1265.
	37.5	1201.	1197.	1154.	1057.	926.	835.	823.	882.	1009.	1019.	1139.
	35.0	1024.	1020.	982.	900.	813.	787.	807.	838.	921.	929.	1041.
	30.0	784.	782.	770.	753.	747.	773.	816.	815.	855.	861.	962.
	25.0	740.	740.	734.	731.	738.	775.	796.	778.	808.	811.	871.
	20.0	692.	691.	691.	701.	721.	744.	727.	704.	725.	726.	728.
	15.0	628.	628.	635.	653.	668.	657.	626.	635.	638.	637.	606.
	10.0	590.	589.	583.	573.	553.	545.	553.	561.	553.	553.	521.
	5.0	490.	490.	491.	494.	497.	501.	502.	498.	488.	488.	473.
	0.0	453.	453.	453.	453.	453.	453.	453.	453.	453.	453.	453.

||  
 PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



# itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.  
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL63996

DATE: 01/07/10

PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

## CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE								
	90.0	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.	0.
175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
87.5	17.	3.	2.	1.	0.	0.	0.	0.	0.	0.	0.
85.0	72.	16.	3.	2.	1.	0.	0.	0.	0.	0.	0.
V 82.5	203.	50.	6.	3.	1.	1.	0.	0.	0.	0.	0.
E 80.0	350.	104.	9.	5.	2.	1.	1.	1.	1.	0.	0.
R 77.5	559.	182.	15.	7.	3.	2.	2.	1.	1.	1.	1.
T 75.0	855.	291.	20.	8.	4.	3.	3.	2.	2.	2.	2.
I 72.5	1202.	461.	25.	10.	6.	4.	4.	3.	3.	3.	2.
C 70.0	1534.	659.	32.	13.	7.	5.	5.	4.	4.	3.	3.
A 69.0<<	1597.	698.	33.	14.	8.	6.	5.	4.	4.	4.	4.
L 67.5	1828.	870.	40.	16.	8.	6.	5.	5.	5.	4.	4.
65.0	2009.	1056.	52.	20.	10.	7.	6.	6.	6.	6.	6.
A 62.5	1977.	1149.	68.	24.	11.	8.	7.	7.	7.	7.	7.
N 60.0	1902.	1201.	89.	29.	13.	9.	8.	8.	8.	8.	8.
G 57.5	1834.	1249.	119.	32.	15.	10.	9.	9.	8.	8.	8.
L 55.0	1766.	1255.	154.	34.	17.	12.	10.	10.	10.	9.	9.
E 52.5	1705.	1233.	184.	36.	19.	13.	12.	11.	11.	10.	10.
50.0	1632.	1184.	200.	38.	21.	15.	13.	13.	12.	11.	11.
47.5	1520.	1110.	209.	40.	23.	17.	14.	14.	14.	13.	13.
45.0	1389.	1025.	218.	42.	24.	18.	16.	15.	15.	15.	15.
42.5	1257.	944.	228.	44.	26.	20.	17.	17.	18.	18.	18.
40.0	1149.	884.	245.	48.	28.	21.	19.	19.	19.	19.	19.
37.5	1064.	852.	286.	55.	30.	23.	20.	20.	20.	21.	21.
35.0	998.	841.	354.	79.	32.	25.	22.	20.	20.	21.	21.
30.0	938.	847.	495.	162.	51.	28.	23.	21.	20.	20.	20.
25.0	855.	799.	571.	288.	120.	45.	26.	22.	21.	20.	20.
20.0	713.	685.	567.	380.	217.	119.	58.	32.	24.	23.	23.
15.0	581.	555.	497.	405.	292.	200.	136.	98.	77.	64.	63.
10.0	500.	476.	431.	380.	326.	274.	227.	194.	170.	158.	156.
5.0	462.	450.	424.	397.	370.	347.	324.	309.	298.	291.	291.
0.0	453.	453.	453.	453.	453.	453.	453.	453.	453.	453.	453.

CONE OF MAXIMUM CANDELA