



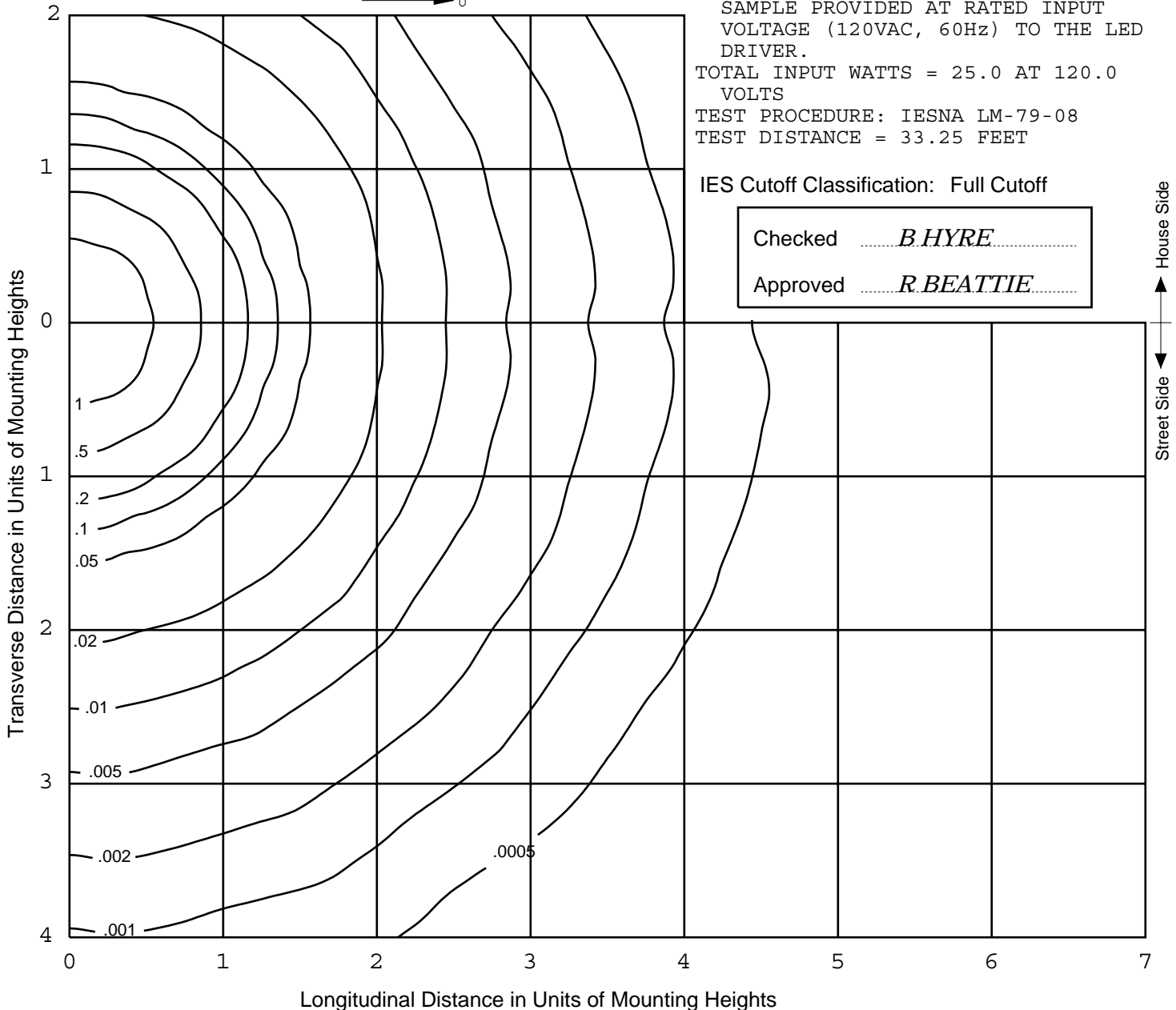
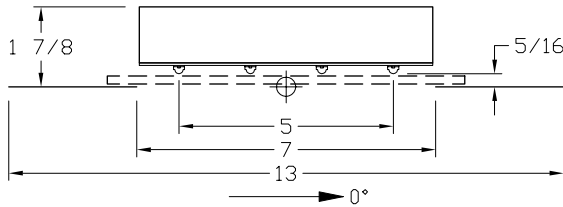
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 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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: ITL61913
 DATE: 03/11/09
 PREPARED FOR: BARE DEVELOPMENT, INC.
 CATALOG NUMBER: HTS-9
 LUMINAIRE: FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED FINNED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 24 LEDS, OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/4".
 LAMP: TWENTY-FOUR WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.
 LED DRIVER: HIGH PERFECTION TECH LP1090-36-GG-290
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.
 TOTAL INPUT WATTS = 25.0 AT 120.0 VOLTS
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 33.25 FEET





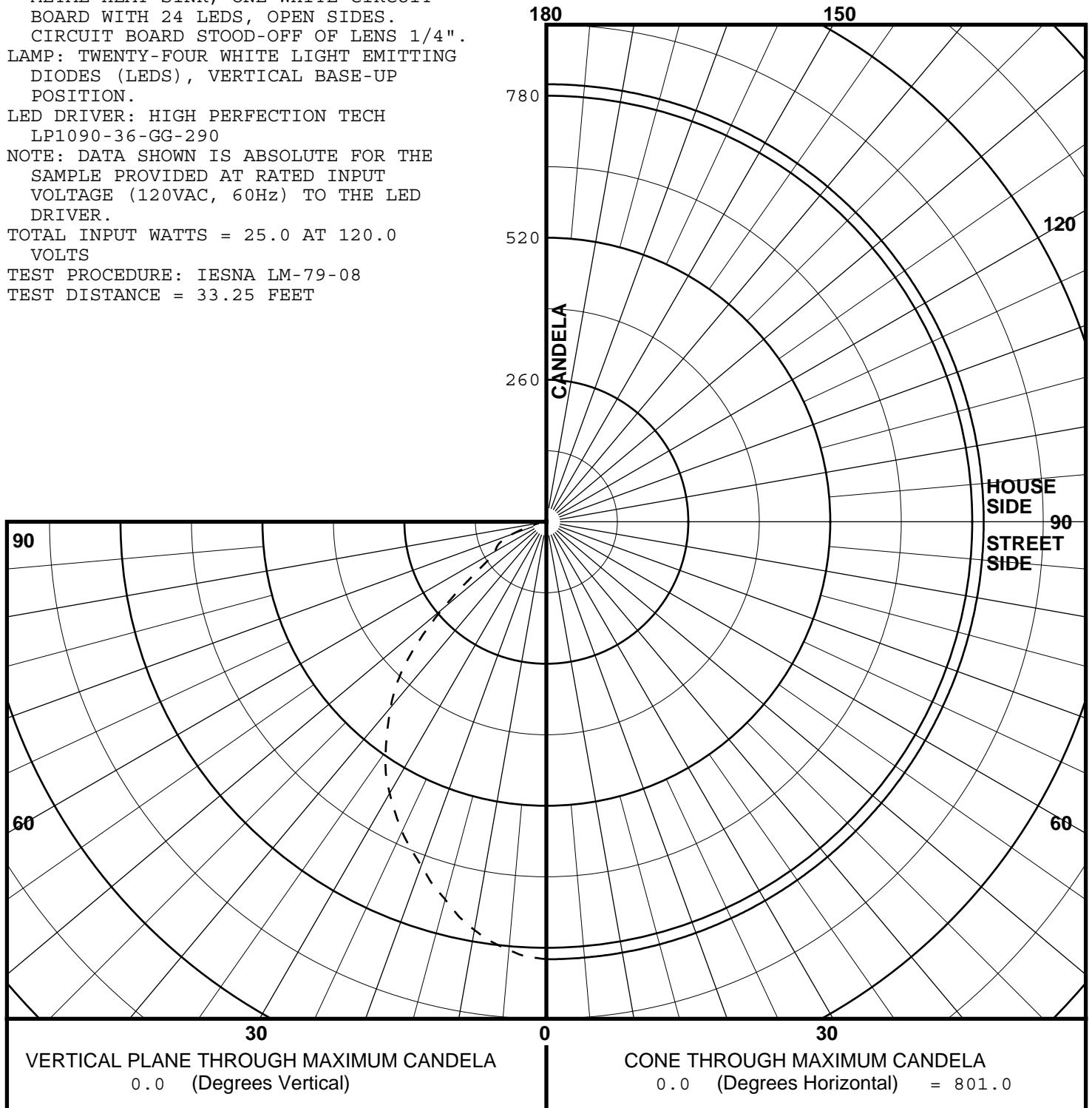
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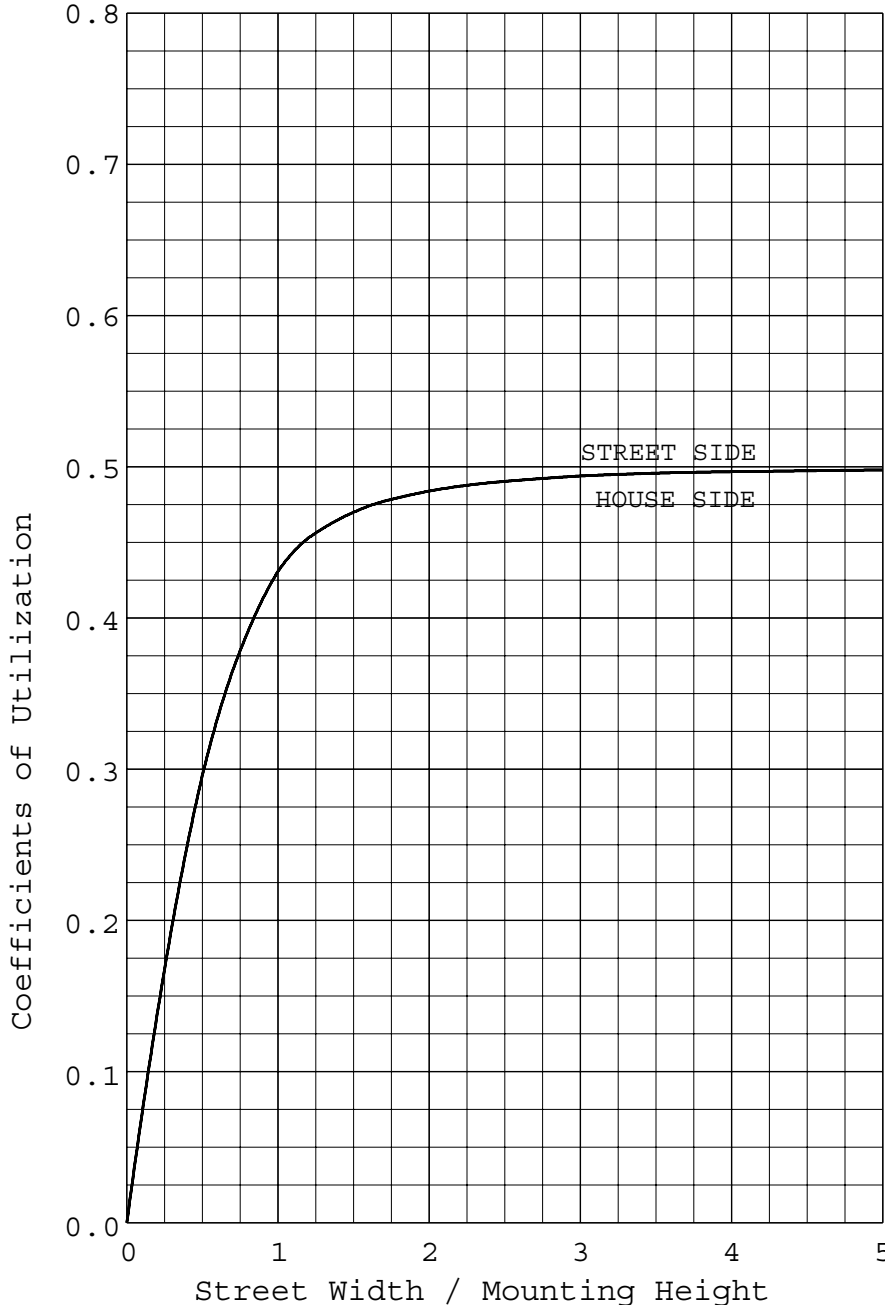
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	722.	50.0
DOWNWARD HOUSE SIDE	722.	50.0
DOWNWARD TOTAL	1444.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	1444.	100.0
EFFICACY = 57.8 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-15-07, LUMINAIRE CLASSIFICATION
SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE
FORWARD LIGHT	722.	50.0
FL (0- 30)		19.6
FM (30- 60)		25.7
FH (60- 80)		4.3
FVH(80- 90)		0.4
BACK LIGHT	722.	50.0
BL (0- 30)		19.6
BM (30- 60)		25.7
BH (60- 80)		4.3
BVH(80- 90)		0.4
UPLIGHT	0.	0.0
UL (90-100)		0.0
UH (100-180)		0.0
TRAPPED LIGHT	0.	0.0
TOTAL FLUX	1444.	100.0



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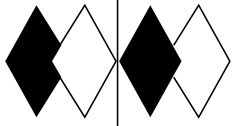
DATE: 03/11/09

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
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	2.	3.	2.	2.	2.	3.	2.	3.	2.	3.
	85.0	10.	11.	9.	11.	8.	10.	8.	11.	10.	12.
	82.5	17.	17.	18.	16.	15.	17.	19.	19.	20.	20.
	80.0	14.	14.	14.	14.	13.	14.	14.	14.	16.	15.
	77.5	19.	21.	19.	21.	18.	20.	19.	20.	20.	21.
	75.0	30.	32.	30.	32.	29.	30.	28.	29.	28.	30.
	72.5	46.	51.	46.	48.	45.	45.	41.	44.	42.	43.
	70.0	67.	70.	66.	69.	65.	68.	60.	63.	60.	62.
V	67.5	84.	87.	82.	83.	83.	85.	79.	79.	77.	77.
E	65.0	96.	97.	93.	95.	96.	97.	96.	96.	90.	90.
R	62.5	103.	104.	100.	100.	101.	104.	104.	107.	103.	100.
T	60.0	108.	109.	105.	105.	106.	108.	108.	111.	110.	110.
I	57.5	119.	122.	118.	120.	116.	120.	119.	123.	120.	121.
C	55.0	147.	151.	144.	149.	143.	151.	145.	153.	146.	151.
A	52.5	191.	200.	190.	195.	189.	194.	190.	195.	191.	199.
L	50.0	248.	256.	244.	255.	246.	254.	245.	253.	248.	254.
	47.5	307.	316.	307.	318.	309.	317.	309.	319.	313.	320.
A	45.0	362.	366.	363.	372.	365.	370.	362.	373.	368.	373.
N	42.5	407.	415.	411.	418.	410.	418.	409.	416.	410.	414.
G	40.0	444.	453.	448.	455.	451.	457.	450.	455.	451.	453.
L	37.5	478.	482.	481.	488.	484.	489.	484.	490.	486.	487.
E	35.0	513.	517.	516.	522.	516.	523.	517.	524.	522.	522.
	32.5	547.	551.	548.	552.	546.	551.	547.	554.	553.	555.
	30.0	574.	578.	575.	579.	572.	576.	574.	580.	578.	578.
	27.5	600.	604.	601.	604.	597.	602.	599.	605.	603.	603.
	25.0	626.	630.	628.	631.	623.	627.	626.	630.	628.	627.
	22.5	648.	653.	651.	653.	646.	651.	647.	653.	650.	650.
	20.0	670.	675.	673.	675.	669.	672.	669.	675.	672.	671.
	17.5	695.	699.	697.	700.	695.	699.	694.	701.	697.	696.
	15.0	716.	721.	721.	723.	718.	721.	717.	723.	720.	718.
	12.5	740.	743.	742.	747.	740.	743.	740.	746.	742.	741.
	10.0	759.	763.	762.	766.	759.	764.	760.	766.	763.	761.
	7.5	775.	779.	778.	780.	775.	779.	776.	782.	780.	778.
	5.0	787.	790.	789.	791.	788.	790.	788.	793.	791.	789.
	2.5	797.	798.	798.	799.	796.	796.	796.	800.	801.	797.
	0.0<<	801.	801.	801.	801.	801.	801.	801.	801.	801.	801.

||
 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
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	3.	2.	3.	2.	3.	2.	2.	3.	2.
	85.0	12.	10.	11.	8.	10.	8.	11.	9.	11.
	82.5	20.	20.	19.	19.	17.	15.	16.	18.	17.
	80.0	15.	16.	14.	14.	14.	13.	14.	14.	14.
	77.5	21.	20.	20.	19.	20.	18.	21.	19.	21.
	75.0	30.	28.	29.	28.	30.	29.	32.	30.	32.
	72.5	43.	42.	44.	41.	45.	45.	48.	46.	51.
	70.0	62.	60.	63.	60.	68.	65.	69.	66.	70.
V	67.5	77.	77.	79.	79.	85.	83.	83.	82.	87.
E	65.0	90.	90.	96.	96.	97.	96.	95.	93.	97.
R	62.5	100.	103.	107.	104.	104.	101.	100.	100.	104.
T	60.0	110.	110.	111.	108.	108.	106.	105.	105.	109.
I	57.5	121.	120.	123.	119.	120.	116.	120.	118.	122.
C	55.0	151.	146.	153.	145.	151.	143.	149.	144.	151.
A	52.5	199.	191.	195.	190.	194.	189.	195.	190.	200.
L	50.0	254.	248.	253.	245.	254.	246.	255.	244.	256.
	47.5	320.	313.	319.	309.	317.	309.	318.	307.	316.
A	45.0	373.	368.	373.	362.	370.	365.	372.	363.	366.
N	42.5	414.	410.	416.	409.	418.	410.	418.	411.	415.
G	40.0	453.	451.	455.	450.	457.	451.	455.	448.	453.
L	37.5	487.	486.	490.	484.	489.	484.	488.	481.	482.
E	35.0	522.	522.	524.	517.	523.	516.	522.	516.	517.
	32.5	555.	553.	554.	547.	551.	546.	552.	548.	551.
	30.0	578.	578.	580.	574.	576.	572.	579.	575.	578.
	27.5	603.	603.	605.	599.	602.	597.	604.	601.	604.
	25.0	627.	628.	630.	626.	627.	623.	631.	628.	630.
	22.5	650.	650.	653.	647.	651.	646.	653.	651.	653.
	20.0	671.	672.	675.	669.	672.	669.	675.	673.	675.
	17.5	696.	697.	701.	694.	699.	695.	700.	697.	699.
	15.0	718.	720.	723.	717.	721.	718.	723.	721.	721.
	12.5	741.	742.	746.	740.	743.	740.	747.	742.	743.
	10.0	761.	763.	766.	760.	764.	759.	766.	762.	763.
	7.5	778.	780.	782.	776.	779.	775.	780.	778.	779.
	5.0	789.	791.	793.	788.	790.	788.	791.	789.	790.
	2.5	797.	801.	800.	796.	796.	796.	799.	798.	798.
	0.0<<	801.	801.	801.	801.	801.	801.	801.	801.	801.

CONE OF MAXIMUM CANDELA