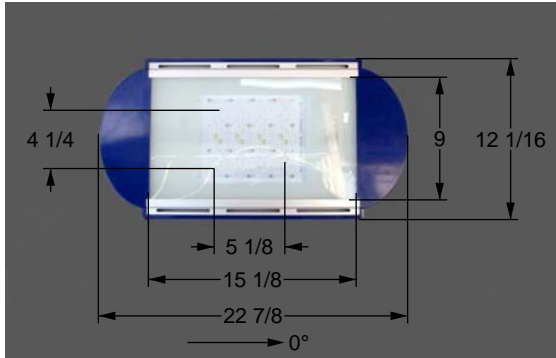


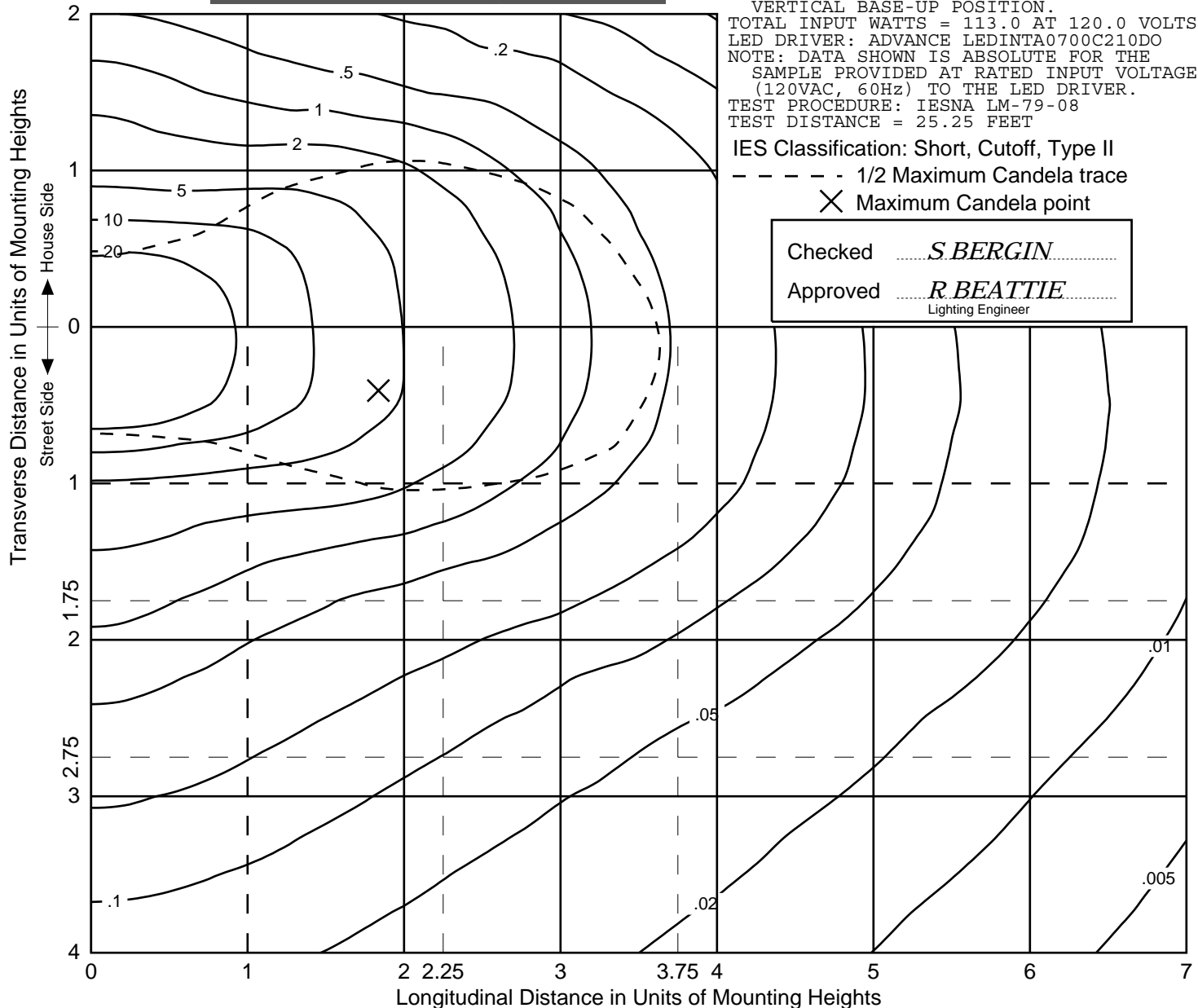
ISOLUX LINES OF HORIZONTAL ILLUMINATION
Values based on 8 meter mounting height.

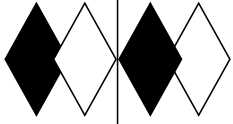


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 PREPARED FOR: MANUFACTURER: LIAN-FA LIGHTING TECHNOLOGY CO., LTD/ US
 DISTRIBUTOR: VICTOR LED LIGHTING/ CHILE DISTRIBUTOR: GREEN ESCAPE, LTDA
 CATALOG NUMBER: APLO 2-OSL-W2-48C-110-700
 LUMINAIRE: EXTRUDED METAL HOUSING, EXTRUDED DIFFUSE FINNED METAL HEAT SINK/CIRCUIT BOARD MOUNT, EXTRUDED BLUE PAINTED METAL SIDE TRIM, CAST BLUE PAINTED METAL END CAPS, 1 CIRCUIT BOARD WITH 48 LEDS, 1 FROSTED PLASTIC LENS WITH 1 CLEAR OPTIC PER 12 LEDS, CLEAR GLASS LENS WITH FROSTED PERIMETER. LENS FROSTED SIDE IN. HOUSING TILTED UP 5-DEGREES FROM HORIZONTAL.
 LAMPS: FORTY-EIGHT WHITE LIGHT EMITTING DIODES (LEDs), TILTED 5-DEGREES FROM VERTICAL BASE-UP POSITION.
 TOTAL INPUT WATTS = 113.0 AT 120.0 VOLTS
 LED DRIVER: ADVANCE LEDINTA0700C210DO
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 25.25 FEET

IES Classification: Short, Cutoff, Type II
 - - - - - 1/2 Maximum Candela trace
 X Maximum Candela point

CheckedS.BERGIN.....
 ApprovedR.BEATTIE.....
 Lighting Engineer



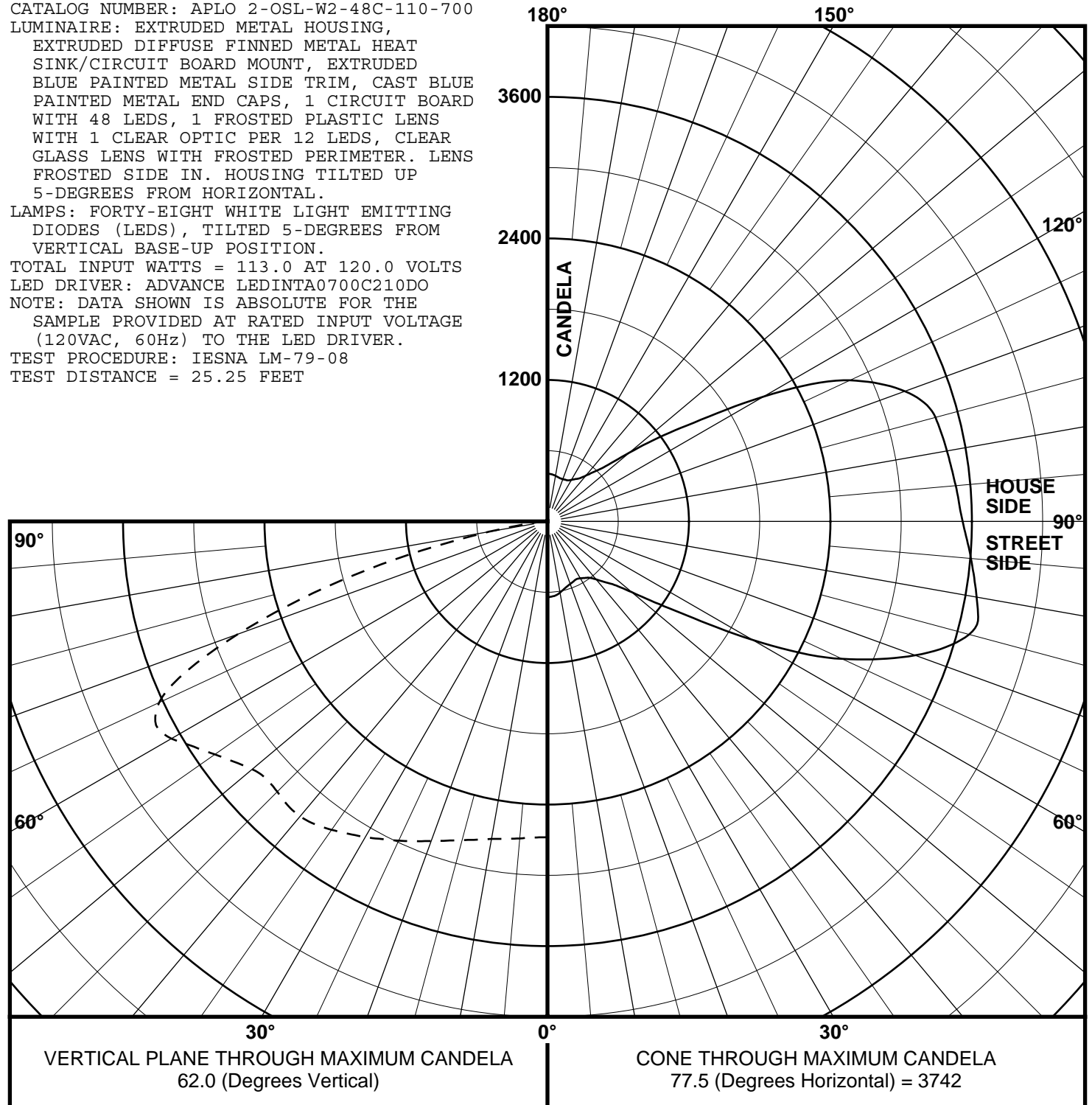


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PREPARED FOR: MANUFACTURER: LIAN-FA
LIGHTING TECHNOLOGY CO., LTD/ US
DISTRIBUTOR: VICTOR LED LIGHTING/
CHILE DISTRIBUTOR: GREEN ESCAPE, LTDA
CATALOG NUMBER: APLO 2-OSL-W2-48C-110-700
LUMINAIRE: EXTRUDED METAL HOUSING,
EXTRUDED DIFFUSE FINNED METAL HEAT
SINK/CIRCUIT BOARD MOUNT, EXTRUDED
BLUE PAINTED METAL SIDE TRIM, CAST BLUE
PAINTED METAL END CAPS, 1 CIRCUIT BOARD
WITH 48 LEDS, 1 FROSTED PLASTIC LENS
WITH 1 CLEAR OPTIC PER 12 LEDS, CLEAR
GLASS LENS WITH FROSTED PERIMETER. LENS
FROSTED SIDE IN. HOUSING TILTED UP
5-DEGREES FROM HORIZONTAL.

LAMPS: FORTY-EIGHT WHITE LIGHT EMITTING
DIODES (LEDS), TILTED 5-DEGREES FROM
VERTICAL BASE-UP POSITION.
TOTAL INPUT WATTS = 113.0 AT 120.0 VOLTS
LED DRIVER: ADVANCE LEDINTA0700C210DO
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE LED DRIVER.
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 25.25 FEET

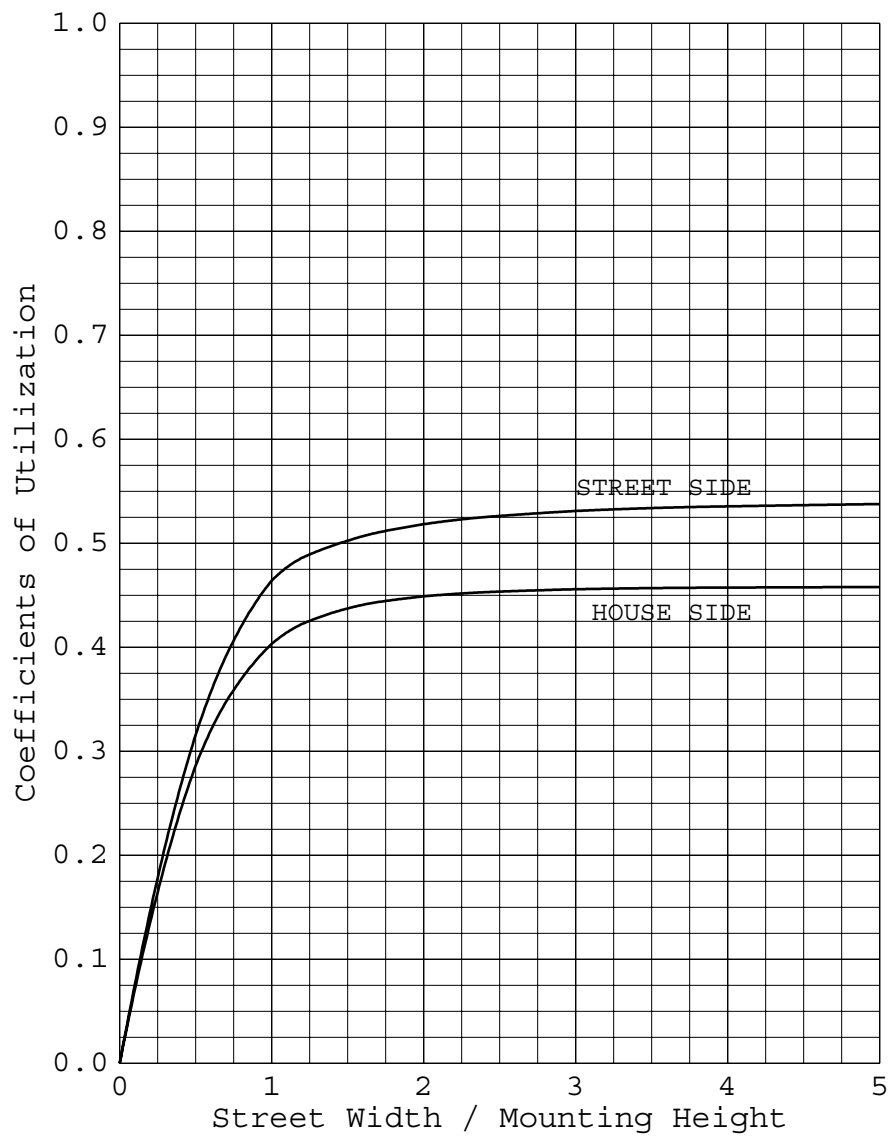
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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GREEN ESCAPE, LTDA

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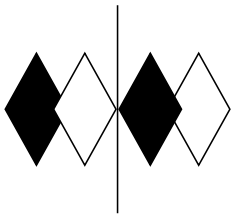
COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	4786	54.2
DOWNWARD HOUSE SIDE	4051	45.8
DOWNWARD TOTAL	8837	100.0
UPWARD STREET SIDE	1	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	1	0.0
TOTAL FLUX	8837	100.0

EFFICACY = 78.2 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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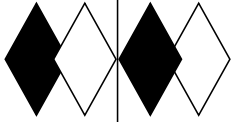
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	4786.	54.2	
FL (0- 30)	1223.4	13.8	
FM (30- 60)	2435.8	27.6	
FH (60- 80)	1070.0	12.1	G1
FVH(80- 90)	56.2	0.6	G1
BACK LIGHT	4051.	45.8	
BL (0- 30)	1080.7	12.2	B3
BM (30- 60)	2043.6	23.1	B2
BH (60- 80)	911.7	10.3	B2 G2
BVH(80- 90)	15.2	0.2	G1
UPLIGHT	1.	0.0	
UL (90-100)	0.6	0.0	U1
UH (100-180)	0.0	0.0	U0
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	8837.	100.0	

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

BUG RATING: B3 U1 G2



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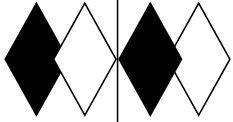
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CANDELA TABULATION

	STREET SIDE		LATERAL ANGLE									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	77.5	85.0	
	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	33.	32.	20.	12.	8.	5.	3.	1.	1.	1.	0.
	87.5	75.	72.	55.	41.	32.	29.	26.	22.	17.	13.	6.
	85.0	126.	122.	102.	82.	72.	69.	69.	73.	77.	74.	60.
V	82.5	176.	174.	154.	132.	120.	124.	134.	156.	199.	210.	214.
E	80.0	229.	226.	209.	189.	180.	192.	217.	289.	458.	503.	542.
R	77.5	288.	285.	266.	243.	234.	253.	306.	503.	879.	970.	1062.
T	75.0	344.	340.	316.	292.	286.	317.	410.	772.	1411.	1583.	1762.
I	72.5	410.	405.	370.	340.	341.	388.	544.	1099.	2003.	2201.	2421.
C	70.0	489.	481.	430.	392.	398.	465.	707.	1483.	2594.	2793.	3012.
A	67.5	562.	553.	494.	447.	457.	546.	892.	1909.	3116.	3308.	3433.
L	65.0	616.	607.	547.	499.	516.	632.	1078.	2331.	3497.	3634.	3614.
	62.5	643.	635.	584.	546.	574.	723.	1268.	2696.	3690.	3742.	3616.
A	62.0<<	644.	635.	584.	550.	583.	742.	1317.	2758.	3703.	3742.	3606.
N	60.0	647.	642.	606.	586.	632.	817.	1474.	2950.	3694.	3683.	3532.
G	57.5	646.	644.	624.	624.	690.	916.	1705.	3088.	3604.	3556.	3431.
L	55.0	655.	655.	649.	665.	752.	1030.	1946.	3166.	3501.	3444.	3341.
E	52.5	677.	677.	681.	712.	823.	1180.	2182.	3222.	3399.	3348.	3267.
	50.0	710.	710.	723.	770.	919.	1390.	2412.	3256.	3306.	3270.	3219.
	47.5	755.	756.	778.	848.	1057.	1672.	2637.	3274.	3252.	3233.	3196.
	45.0	819.	822.	855.	959.	1272.	2005.	2869.	3296.	3255.	3241.	3204.
	42.5	913.	918.	970.	1135.	1595.	2370.	3082.	3303.	3275.	3263.	3228.
	40.0	1062.	1072.	1158.	1428.	1998.	2710.	3227.	3286.	3271.	3264.	3239.
	37.5	1327.	1341.	1480.	1843.	2404.	2966.	3274.	3248.	3241.	3237.	3222.
	35.0	1724.	1745.	1930.	2299.	2738.	3124.	3233.	3197.	3197.	3192.	3180.
	30.0	2632.	2650.	2780.	2960.	3104.	3136.	3091.	3082.	3092.	3090.	3078.
	25.0	3061.	3067.	3098.	3096.	3038.	2995.	2978.	2978.	2989.	2987.	2974.
	20.0	2940.	2943.	2937.	2918.	2895.	2879.	2881.	2883.	2887.	2884.	2872.
	15.0	2819.	2819.	2821.	2819.	2812.	2807.	2808.	2804.	2803.	2797.	2791.
	10.0	2753.	2753.	2760.	2758.	2757.	2754.	2754.	2744.	2738.	2734.	2731.
	5.0	2713.	2714.	2720.	2716.	2716.	2712.	2711.	2703.	2698.	2698.	2697.
	0.0	2677.	2677.	2677.	2677.	2677.	2677.	2677.	2677.	2677.	2677.	2677.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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 GREEN ESCAPE, LTDA

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	4.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.
	85.0	48.	41.	23.	7.	2.	1.	0.	0.	0.	0.	0.
V	82.5	189.	158.	101.	53.	25.	14.	8.	4.	2.	2.	2.
E	80.0	507.	436.	269.	141.	77.	45.	32.	27.	27.	32.	32.
R	77.5	1017.	927.	627.	299.	156.	100.	72.	62.	63.	70.	72.
T	75.0	1747.	1624.	1212.	580.	265.	165.	123.	108.	109.	117.	118.
I	72.5	2416.	2305.	1843.	982.	403.	239.	179.	160.	161.	166.	167.
C	70.0	2963.	2848.	2433.	1470.	575.	323.	239.	215.	213.	216.	216.
A	67.5	3360.	3257.	2933.	1980.	795.	415.	304.	269.	262.	265.	266.
L	65.0	3534.	3460.	3264.	2458.	1061.	512.	369.	325.	316.	323.	325.
	62.5	3527.	3482.	3409.	2826.	1363.	617.	435.	381.	377.	394.	398.
A	62.0 <<	3521.	3476.	3407.	2831.	1382.	624.	441.	386.	383.	401.	406.
N	60.0	3463.	3424.	3404.	3021.	1648.	724.	501.	438.	439.	466.	471.
G	57.5	3382.	3344.	3322.	3059.	1874.	833.	566.	494.	498.	531.	537.
L	55.0	3291.	3256.	3231.	3024.	2021.	942.	631.	546.	548.	579.	585.
E	52.5	3216.	3183.	3138.	2961.	2106.	1053.	696.	595.	586.	608.	613.
	50.0	3174.	3132.	3055.	2884.	2164.	1176.	763.	641.	616.	625.	627.
	47.5	3151.	3101.	2985.	2807.	2209.	1316.	837.	689.	648.	642.	643.
	45.0	3159.	3100.	2942.	2744.	2250.	1467.	927.	744.	685.	669.	668.
	42.5	3187.	3128.	2943.	2710.	2288.	1616.	1045.	813.	733.	708.	705.
	40.0	3203.	3154.	2971.	2723.	2338.	1757.	1199.	905.	798.	762.	758.
	37.5	3194.	3158.	3000.	2768.	2415.	1890.	1380.	1039.	891.	840.	834.
	35.0	3160.	3132.	3011.	2814.	2512.	2030.	1564.	1221.	1031.	958.	950.
	30.0	3065.	3048.	2981.	2863.	2668.	2371.	1962.	1646.	1452.	1358.	1347.
	25.0	2966.	2953.	2916.	2853.	2743.	2601.	2401.	2150.	1945.	1839.	1828.
	20.0	2864.	2853.	2829.	2802.	2759.	2692.	2611.	2530.	2448.	2390.	2386.
	15.0	2785.	2773.	2755.	2743.	2736.	2722.	2694.	2665.	2638.	2620.	2620.
	10.0	2727.	2720.	2705.	2700.	2698.	2692.	2690.	2688.	2684.	2680.	2680.
	5.0	2694.	2693.	2684.	2681.	2675.	2673.	2670.	2669.	2666.	2661.	2663.
	0.0	2677.	2677.	2677.	2677.	2677.	2677.	2677.	2677.	2677.	2677.	2677.

CONE OF MAXIMUM CANDELA



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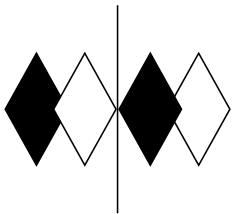
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 GREEN ESCAPE, LTDA

5-DEGREE
 ZONAL LUMEN SUMMARY

0- 5	64
5- 10	194
10- 15	325
15- 20	456
20- 25	581
25- 30	683
30- 35	739
35- 40	749
40- 45	739
45- 50	736
50- 55	751
55- 60	765
60- 65	740
65- 70	624
70- 75	418
75- 80	199
80- 85	60
85- 90	11
90- 95	1
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
 ZONAL LUMEN SUMMARY

0- 10	258
0- 20	1040
0- 30	2304
0- 40	3792
0- 50	5268
0- 60	6783
0- 70	8148
0- 80	8765
0- 90	8837
0-100	8837
0-110	8837
0-120	8837
0-130	8837
0-140	8837
0-150	8837
0-160	8837
0-170	8837
0-180	8837



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