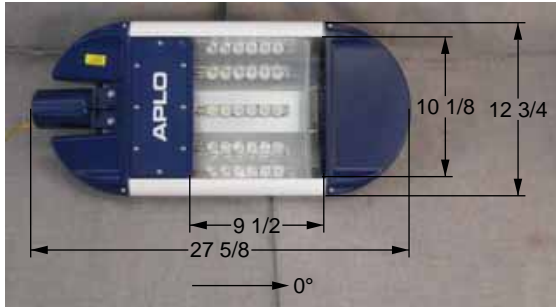
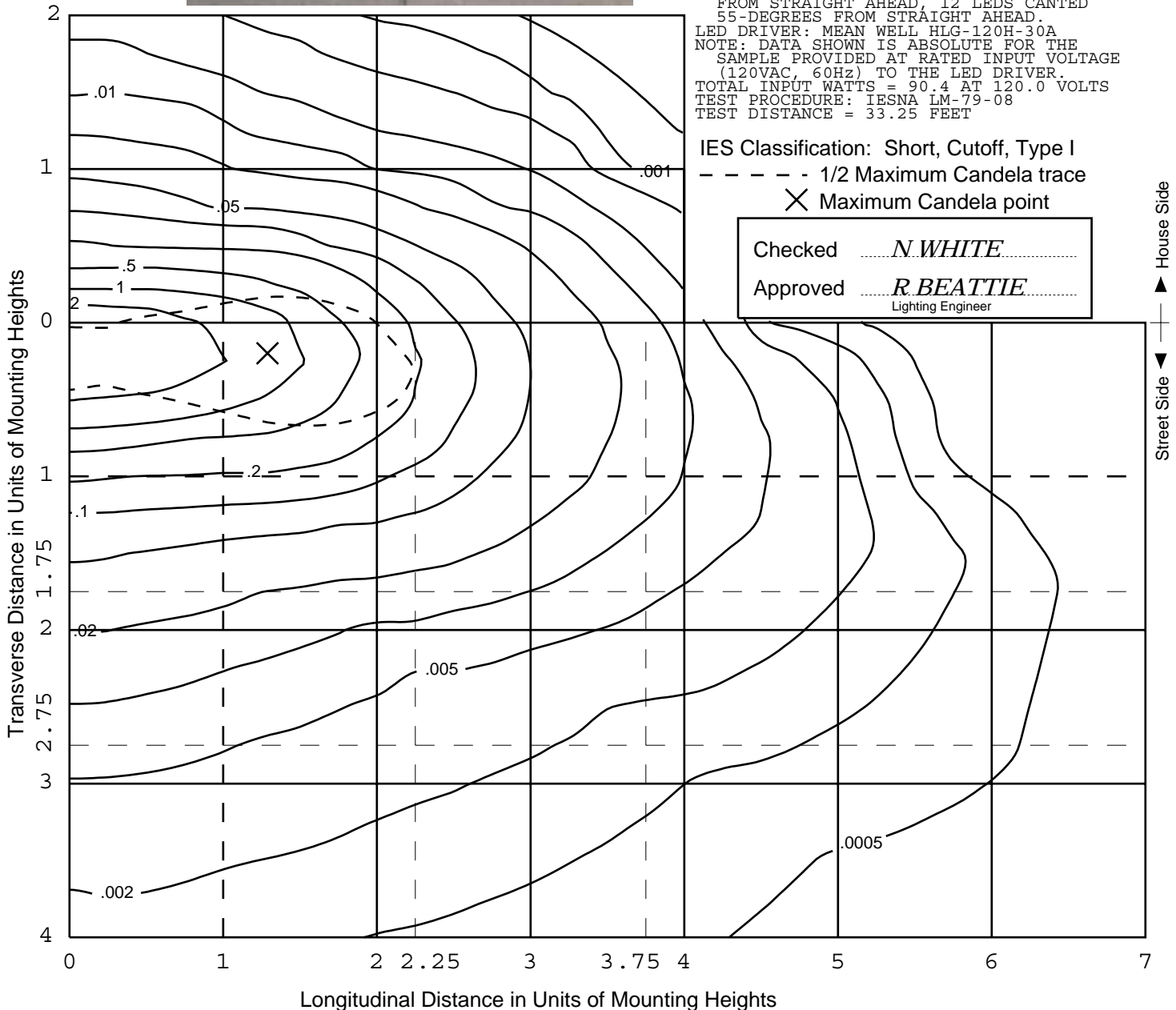
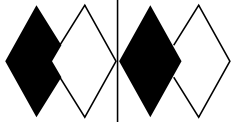


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 30 foot mounting height.



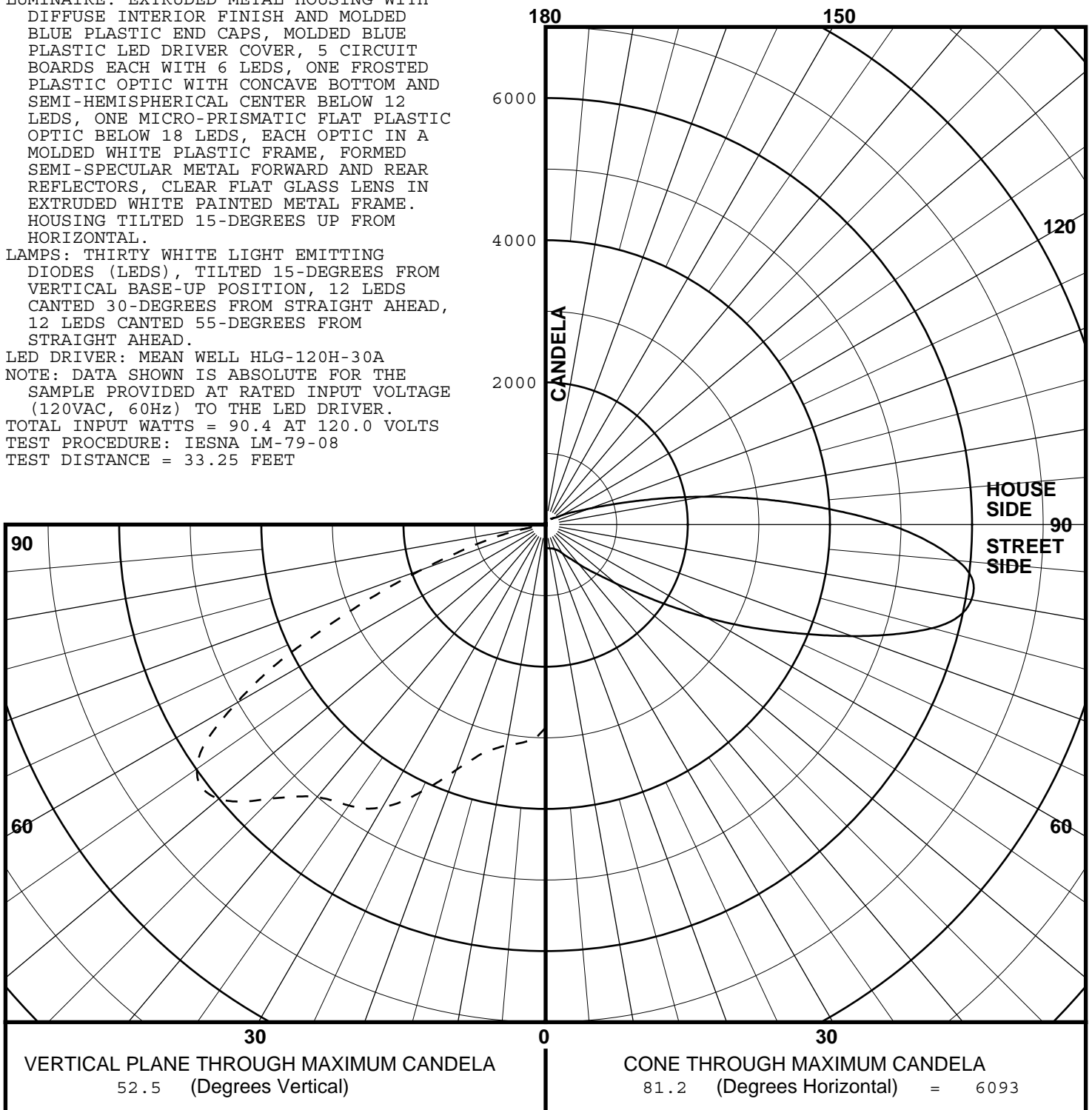
REPORT NUMBER: ITL69384
ISSUE DATE: 08/02/11 PAGE: 1 OF 7
PREPARED FOR: MANUFACTURER: LIAN-FA LIGHTING TECHNOLOGY CO., LTD. (TAIWAN),
US DISTRIBUTOR: VICTOR LED LIGHTING, LLC,
CHILE DISTRIBUTOR: GREEN ESCAPE LTDA.
CATALOG NUMBER: GELED-APLO-OST-W2-30C-80
LUMINAIRE: EXTRUDED METAL HOUSING WITH DIFFUSE INTERIOR FINISH AND MOLDED BLUE PLASTIC END CAPS, MOLDED BLUE PLASTIC LED DRIVER COVER, 5 CIRCUIT BOARDS EACH WITH 6 LEDs, ONE FROSTED PLASTIC OPTIC WITH CONCAVE BOTTOM AND SEMI-HEMISPHERICAL CENTER BELOW 12 LEDs, ONE MICRO-PRISMATIC FLAT PLASTIC OPTIC BELOW 18 LEDs, EACH OPTIC IN A MOLDED WHITE PLASTIC FRAME, FORMED SEMI-SPECULAR METAL FORWARD AND REAR REFLECTORS, CLEAR FLAT GLASS LENS IN EXTRUDED WHITE PAINTED METAL FRAME. HOUSING TILTED 15-DEGREES UP FROM HORIZONTAL.
LAMPS: THIRTY WHITE LIGHT EMITTING DIODES (LEDS), TILTED 15-DEGREES FROM VERTICAL BASE-UP POSITION, 12 LEDS CANTED 30-DEGREES FROM STRAIGHT AHEAD, 12 LEDS CANTED 55-DEGREES FROM STRAIGHT AHEAD.
LED DRIVER: MEAN WELL HLG-120H-30A
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.
TOTAL INPUT WATTS = 90.4 AT 120.0 VOLTS
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 33.25 FEET





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 PLASTIC OPTIC WITH CONCAVE BOTTOM AND
 SEMI-HEMISPHERICAL CENTER BELOW 12
 LEDS, ONE MICRO-PRISMATIC FLAT PLASTIC
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 MOLDED WHITE PLASTIC FRAME, FORMED
 SEMI-SPECULAR METAL FORWARD AND REAR
 REFLECTORS, CLEAR FLAT GLASS LENS IN
 EXTRUDED WHITE PAINTED METAL FRAME.
 HOUSING TILTED 15-DEGREES UP FROM
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 LAMPS: THIRTY WHITE LIGHT EMITTING
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 TOTAL INPUT WATTS = 90.4 AT 120.0 VOLTS
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 33.25 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



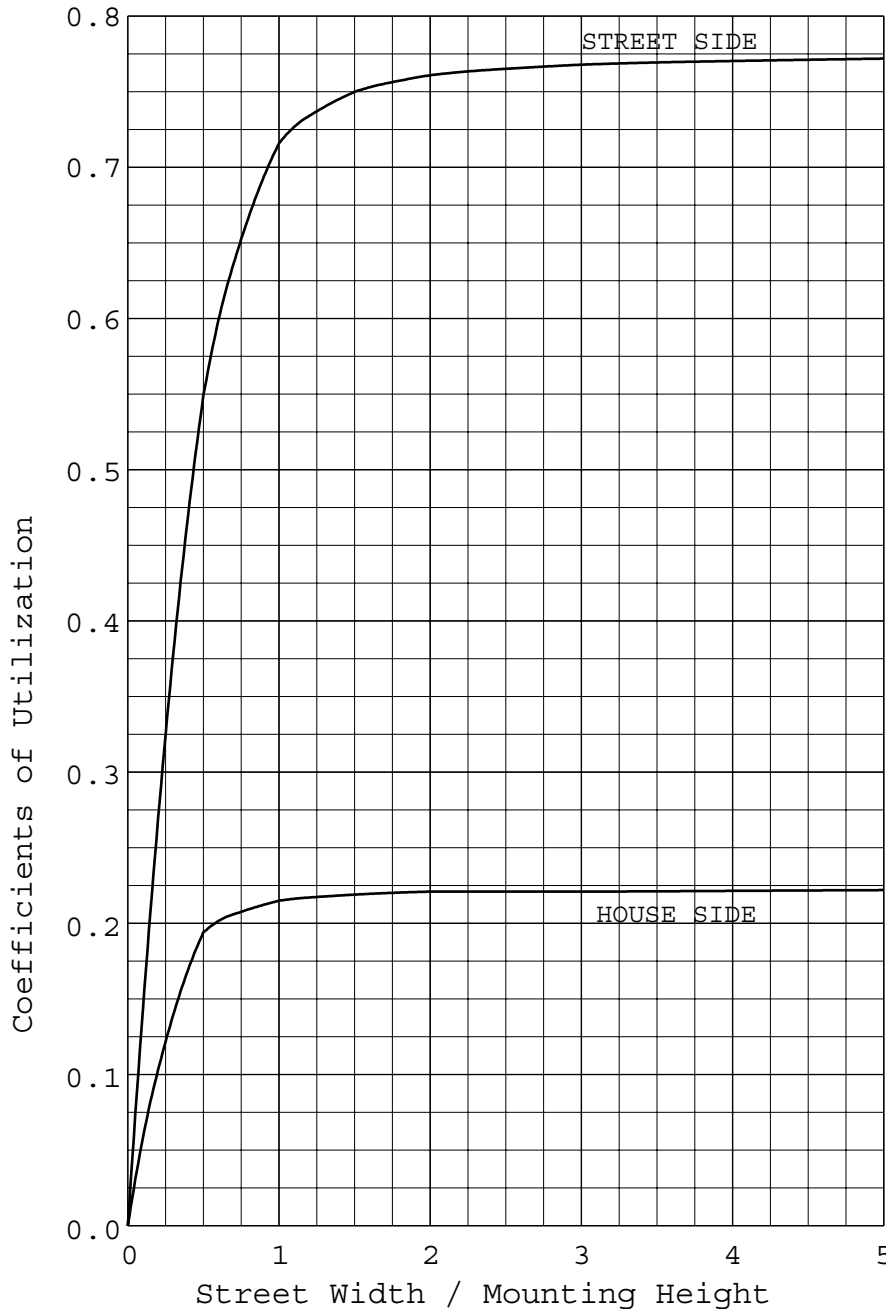
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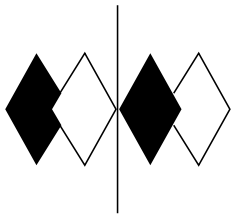
COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	5126	77.0
DOWNWARD HOUSE SIDE	1525	22.9
DOWNWARD TOTAL	6651	100.0
UPWARD STREET SIDE	2	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	2	0.0
TOTAL FLUX	6653	100.0
EFFICACY = 73.6 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.

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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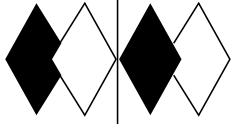
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	5126.	77.0	
FL (0- 30)	1582.6	23.8	
FM (30- 60)	2791.4	42.0	
FH (60- 80)	725.5	10.9	G1
FVH(80- 90)	26.3	0.4	U1 G1
BACK LIGHT	1525.	22.9	
BL (0- 30)	504.0	7.6	B2
BM (30- 60)	814.9	12.2	B1
BH (60- 80)	203.9	3.1	B1 G1
BVH(80- 90)	2.3	0.0	U0 G0
UPLIGHT	2.	0.0	
UL (90-100)	2.3	0.0	U1
UH (100-180)	0.0	0.0	U1
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	6653.	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
 (PER ADDENDUM A FOR IESNA TM-15-07)

BUG RATING: B2 U1 G1



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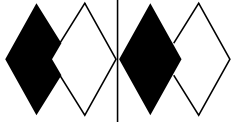
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CANDELA TABULATION

	LATERAL ANGLE											
	STREET SIDE	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	81.2	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	5.	3.	5.	4.	5.	4.	5.	2.	0.	0.	0.
	92.5	9.	7.	9.	8.	9.	7.	7.	6.	5.	0.	0.
	90.0	15.	12.	17.	14.	16.	10.	12.	9.	10.	7.	4.
	87.5	32.	32.	32.	32.	32.	32.	24.	24.	24.	24.	16.
	85.0	49.	49.	49.	49.	41.	49.	49.	32.	32.	32.	32.
V	82.5	49.	49.	49.	49.	65.	65.	81.	122.	49.	49.	49.
E	80.0	65.	65.	65.	73.	81.	97.	106.	187.	260.	81.	65.
R	77.5	81.	81.	81.	81.	97.	114.	138.	317.	544.	512.	366.
T	75.0	97.	106.	97.	106.	114.	146.	227.	496.	820.	869.	845.
I	72.5	130.	130.	130.	130.	146.	171.	333.	707.	1186.	1284.	1235.
C	70.0	146.	146.	146.	146.	171.	219.	439.	1040.	1682.	1852.	1795.
A	67.5	179.	179.	171.	179.	203.	276.	569.	1349.	2396.	2575.	2453.
L	65.0	195.	195.	187.	211.	236.	349.	707.	1706.	3071.	3388.	3225.
	62.5	211.	219.	211.	227.	268.	439.	861.	2153.	3769.	4306.	4078.
A	60.0	244.	244.	244.	268.	317.	528.	1129.	2526.	4517.	5029.	4801.
N	57.5	276.	276.	276.	301.	366.	650.	1365.	2941.	5069.	5654.	5410.
G	55.0	309.	309.	309.	341.	455.	796.	1584.	3266.	5459.	5987.	5719.
L	53.0	325.	325.	341.	382.	536.	918.	1779.	3493.	5605.	6093.	5808.
E	52.5<<	325.	333.	349.	398.	569.	950.	1828.	3534.	5630.	6093.	5817.
	50.0	374.	390.	406.	479.	682.	1145.	2072.	3769.	5638.	6003.	5719.
	47.5	455.	455.	487.	585.	845.	1357.	2356.	3964.	5516.	5768.	5467.
	45.0	552.	552.	593.	715.	1024.	1608.	2632.	4135.	5362.	5451.	5142.
	42.5	682.	691.	764.	918.	1251.	1885.	2949.	4338.	5256.	5191.	4850.
	40.0	877.	877.	942.	1137.	1511.	2177.	3249.	4517.	5191.	5004.	4647.
	37.5	1089.	1113.	1178.	1414.	1747.	2518.	3566.	4761.	5199.	4899.	4509.
	35.0	1365.	1365.	1462.	1682.	2080.	2827.	3908.	4955.	5240.	4825.	4411.
	30.0	2015.	2047.	2096.	2380.	2730.	3453.	4289.	5037.	5061.	4590.	4184.
	25.0	2843.	2892.	2933.	3152.	3371.	3802.	4297.	4647.	4525.	4151.	3826.
	20.0	3753.	3721.	3745.	3794.	3867.	3973.	4111.	4184.	3932.	3672.	3461.
	15.0	4419.	4411.	4338.	4273.	4176.	4070.	3973.	3818.	3542.	3314.	3160.
	10.0	4517.	4501.	4460.	4338.	4208.	4013.	3802.	3599.	3339.	3152.	3046.
	5.0	3932.	3916.	3940.	3778.	3737.	3599.	3485.	3306.	3168.	3063.	2998.
	0.0	2856.	2856.	2856.	2856.	2856.	2856.	2856.	2856.	2856.	2856.	2856.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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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	16.	8.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	85.0	24.	16.	8.	0.	0.	0.	0.	0.	0.	0.	0.
V	82.5	32.	32.	16.	16.	0.	0.	0.	0.	0.	0.	0.
E	80.0	49.	41.	24.	16.	16.	0.	0.	0.	0.	0.	0.
R	77.5	89.	57.	32.	16.	16.	16.	8.	0.	0.	0.	0.
T	75.0	650.	357.	49.	32.	16.	16.	8.	8.	0.	0.	0.
I	72.5	1024.	699.	211.	57.	32.	16.	16.	16.	8.	0.	8.
C	70.0	1430.	1024.	292.	89.	41.	24.	16.	16.	16.	8.	16.
A	67.5	1990.	1365.	406.	122.	49.	32.	24.	16.	16.	16.	16.
L	65.0	2608.	1803.	544.	154.	73.	49.	32.	32.	32.	32.	16.
	62.5	3274.	2340.	699.	211.	81.	57.	41.	32.	32.	32.	32.
A	60.0	3932.	2746.	877.	260.	106.	65.	57.	49.	49.	49.	49.
N	57.5	4427.	3136.	991.	317.	122.	81.	65.	65.	49.	49.	49.
G	55.0	4736.	3363.	1129.	366.	154.	97.	81.	65.	65.	65.	49.
L	53.0	4834.	3477.	1219.	398.	171.	114.	81.	65.	65.	65.	65.
E	52.5<<	4834.	3493.	1243.	406.	171.	114.	81.	65.	65.	65.	65.
	50.0	4801.	3518.	1357.	479.	203.	130.	97.	81.	65.	65.	65.
	47.5	4631.	3477.	1479.	561.	244.	154.	114.	89.	81.	81.	81.
	45.0	4395.	3339.	1535.	609.	276.	179.	130.	114.	97.	97.	97.
	42.5	4143.	3209.	1568.	666.	317.	195.	162.	130.	122.	114.	114.
	40.0	3964.	3095.	1576.	723.	357.	211.	162.	130.	130.	114.	114.
	37.5	3834.	3030.	1600.	804.	390.	260.	195.	162.	162.	146.	146.
	35.0	3729.	2990.	1625.	885.	471.	301.	227.	195.	179.	179.	179.
	30.0	3591.	2949.	1698.	1056.	617.	398.	292.	260.	244.	227.	227.
	25.0	3379.	2884.	1820.	1210.	788.	536.	398.	333.	301.	292.	292.
	20.0	3120.	2754.	1982.	1405.	1032.	739.	577.	487.	431.	406.	406.
	15.0	2916.	2665.	2104.	1657.	1340.	1113.	885.	747.	666.	626.	617.
	10.0	2876.	2681.	2315.	1933.	1690.	1479.	1340.	1219.	1178.	1113.	1121.
	5.0	2892.	2778.	2535.	2332.	2096.	1958.	1820.	1763.	1706.	1682.	1657.
	0.0	2856.	2856.	2856.	2856.	2856.	2856.	2856.	2856.	2856.	2856.	2856.

CONE OF MAXIMUM CANDELA



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