

REPORT NUMBER: ITL85716

ISSUE DATE: 10/01/15

PAGE: 1 OF 9

REVISED: 06/21/16

PREPARED FOR: LED ROADWAY LIGHTING LTD.

CATALOG NUMBER: NXT 72M 0 X 2LB 7 XX 4 XX X XX X

LUMINAIRE: CAST METAL HOUSING WITH SEMI-DIFFUSE INTERIOR FINISH, 2 WHITE CIRCUIT BOARDS EACH WITH 36 LEDS, 2 CLEAR PLASTIC LENSES WITH 1 OPTIC PER LED, CLEAR FLAT GLASS LENS IN CAST SEMI-DIFFUSE METAL DOOR FRAME.

LAMPS: SEVENTY-TWO WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 158.4 WATTS, 1.41 AMPS

LED DRIVER: LED ROADWAY LIGHTING J150UN, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, OUTPUT CURRENT ROTARY SWITCH SET TO 700mA. LRL65633-LF SURGE PROTECTOR.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER AND SURGE PROTECTOR. SURGE PROTECTOR INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

TOTAL LUMEN OUTPUT: 17212

COLOR TEMPERATURE AS MEASURED IN INTEGRATING SPHERE TEST # ITL85719: 3137K

COLOR RENDERING INDEX AS MEASURED IN INTEGRATING SPHERE TEST # ITL85719: 72

LED DC DRIVE CURRENT (mA): 700 (PROVIDED BY CLIENT)

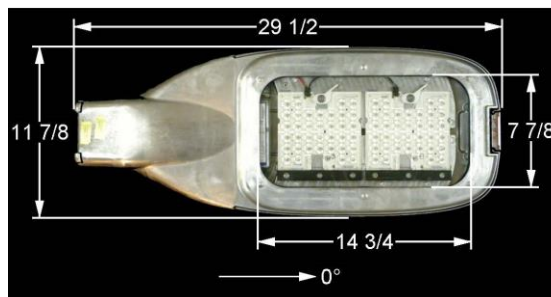
POWER FACTOR: 93.6 %

BUG RATING: B3 U0 G3

LUMINAIRE EFFICACY: 108.7 lm/W

IES CLASSIFICATION: Short, Type II

**CUTOFF DESIGNATION IS NOT INTENDED TO BE USED WITH ABSOLUTE PHOTOMETRIC TESTS.



FLUX DISTRIBUTION

LUMENS	DOWNWARD	UPWARD	TOTALS
HOUSE SIDE	4084	0	4084
STREET SIDE	13128	0	13128
TOTALS	17212	0	17212

TESTING WAS PERFORMED IN ACCORDANCE WITH IESNA LM-79-08
TEST ANGULAR INCREMENTS AND REPORT FORMATTING WAS BASED ON IESNA LM-31-95

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



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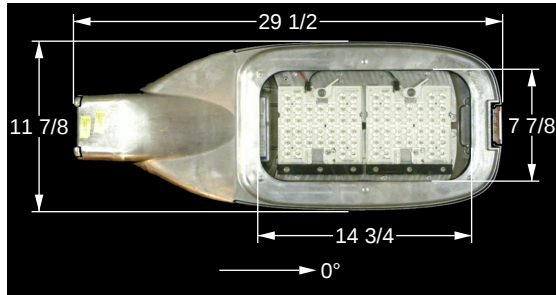
NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.

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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 30 foot mounting height.



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CATALOG NUMBER: NXT 72M 0 X 2LB 7 XX 4

XX X XX X

LUMINAIRE: CAST METAL HOUSING WITH SEMI-DIFFUSE INTERIOR FINISH, 2 WHITE CIRCUIT BOARDS EACH WITH 36 LEDs, 2 CLEAR PLASTIC LENSES WITH 1 OPTIC PER LED, CLEAR FLAT GLASS LENS IN CAST SEMI-DIFFUSE METAL DOOR FRAME.

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WATTS, 1.41 AMPS

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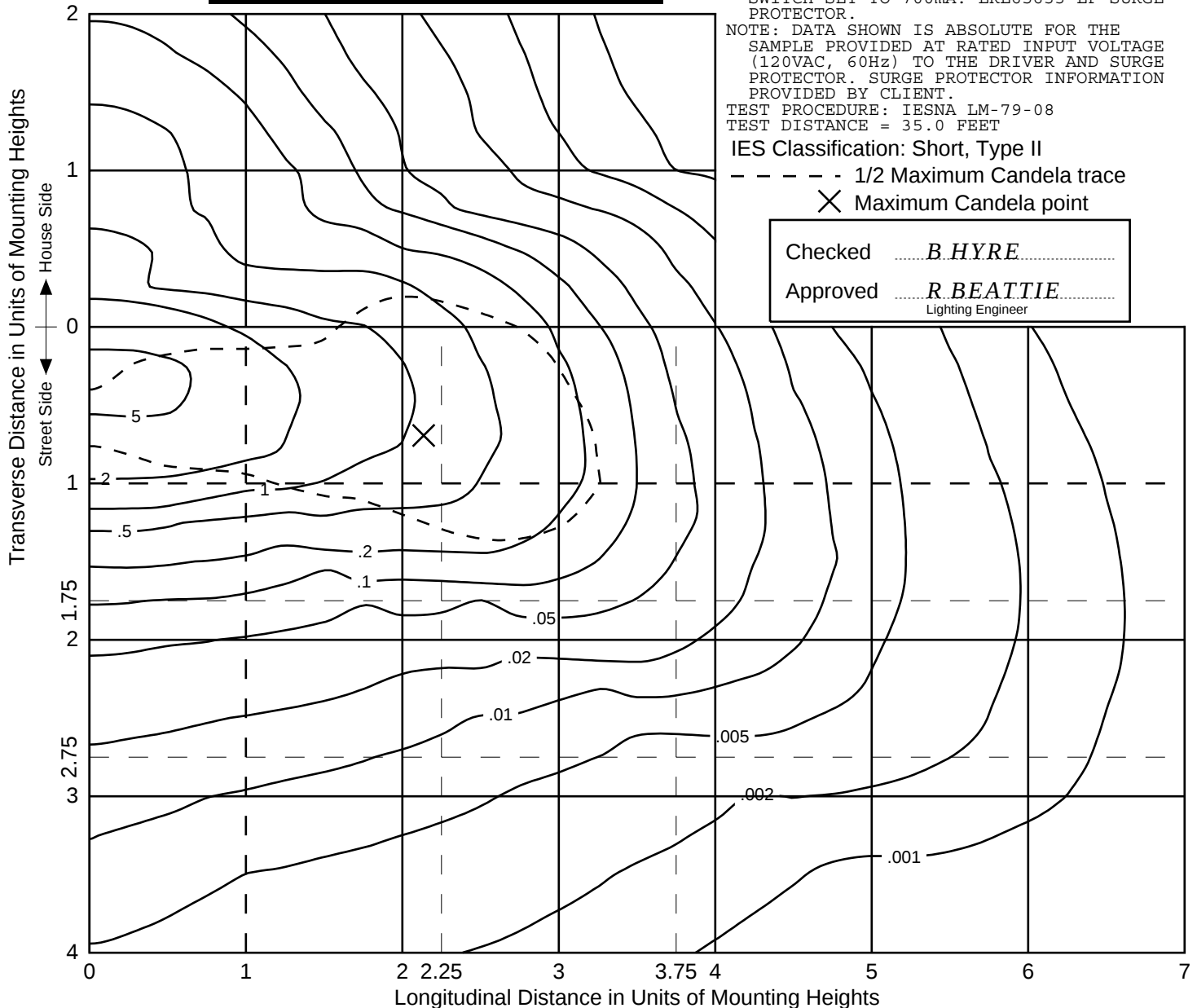
TEST PROCEDURE: IESNA LM-79-08

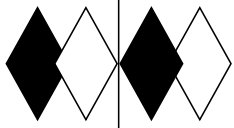
TEST DISTANCE = 35.0 FEET

IES Classification: Short, Type II

--- 1/2 Maximum Candela trace

X Maximum Candela point





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CATALOG NUMBER: NXT 72M 0 X 2LB 7 XX 4
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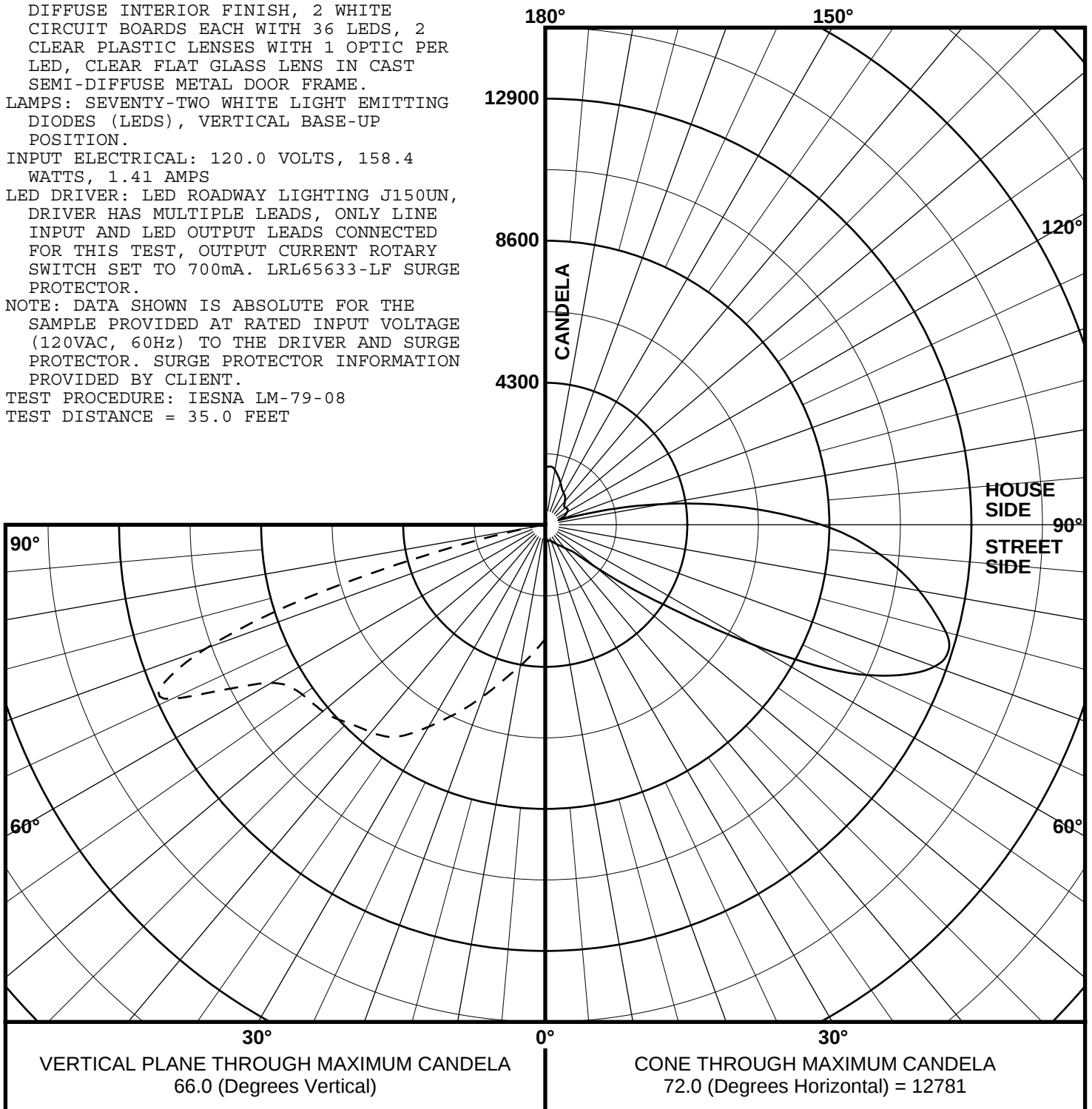
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TEST DISTANCE = 35.0 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





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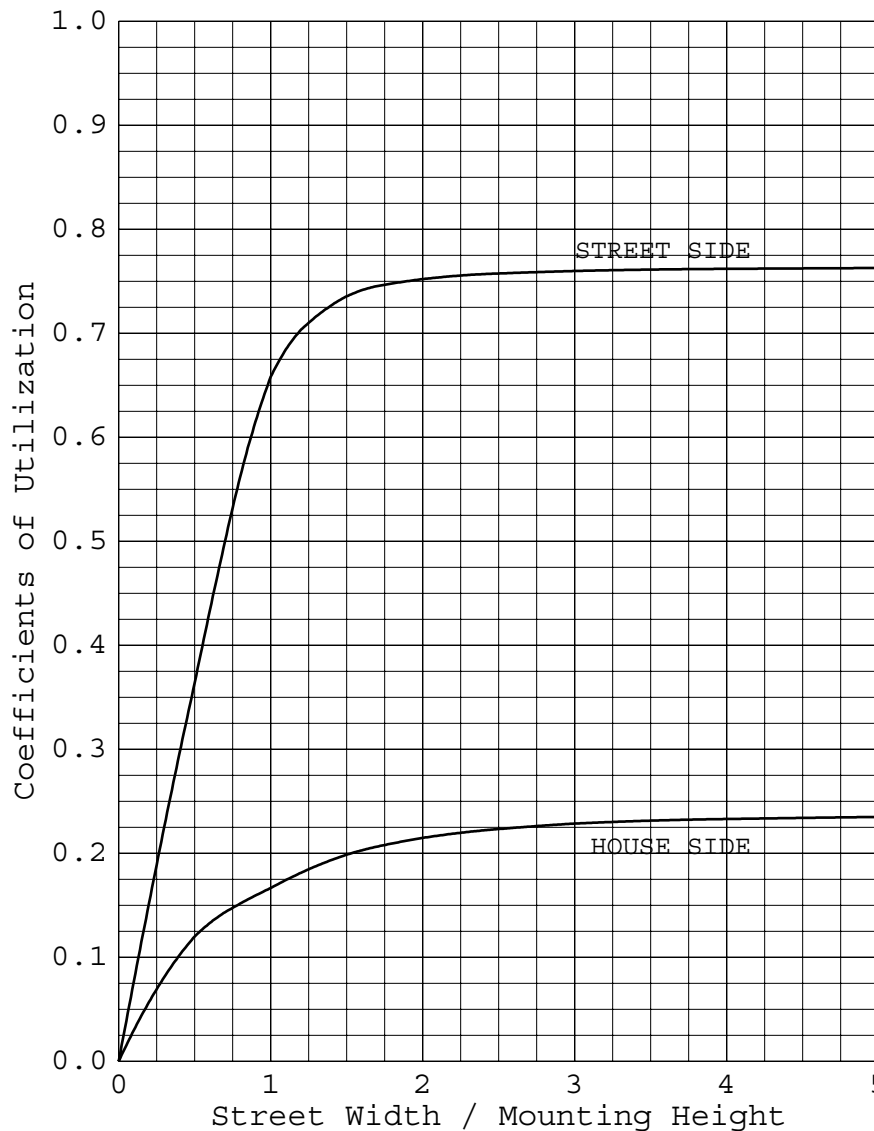


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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	13128	76.3
DOWNWARD HOUSE SIDE	4084	23.7
DOWNWARD TOTAL	17212	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	17212	100.0

EFFICACY = 108.7 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	13128.	76.3	
FL (0- 30)	2510.1	14.6	
FM (30- 60)	7535.0	43.8	
FH (60- 80)	3046.9	17.7	G2
FVH(80- 90)	36.4	0.2	G1
BACK LIGHT	4084.	23.7	
BL (0- 30)	753.5	4.4	B2
BM (30- 60)	2059.7	12.0	B2
BH (60- 80)	1242.8	7.2	B3 G3
BVH(80- 90)	28.1	0.2	G1
UPLIGHT	0.	0.0	
UL (90-100)	0.0	0.0	U0
UH (100-180)	0.0	0.0	U0
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	17212.	100.0	

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

BUG RATING: B3 U0 G3



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CANDELA TABULATION

	STREET	SIDE										
		0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	72.0	75.0	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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	7.	6.	7.	5.	3.	2.	1.	3.	4.	4.	5.
	85.0	33.	32.	30.	29.	32.	27.	23.	30.	26.	25.	20.
V	82.5	71.	70.	72.	70.	82.	87.	95.	205.	196.	173.	104.
E	80.0	118.	119.	118.	125.	143.	157.	195.	611.	598.	556.	321.
R	77.5	205.	199.	171.	185.	220.	255.	373.	1610.	1805.	1501.	893.
T	75.0	341.	302.	228.	251.	303.	380.	702.	3924.	4626.	4114.	2327.
I	72.5	365.	334.	296.	321.	406.	526.	1275.	6464.	8189.	7962.	5510.
C	70.0	401.	380.	374.	413.	528.	707.	1936.	9366.	10898.	10833.	8084.
A	67.5	446.	446.	444.	510.	668.	941.	2915.	11140.	12477.	11978.	9493.
L	66.0<<	498.	493.	495.	586.	771.	1119.	3823.	10775.	12781.	12558.	10150.
	65.0	528.	525.	534.	647.	848.	1246.	4459.	10538.	12473.	12465.	10343.
A	62.5	631.	625.	655.	858.	1107.	1621.	6160.	10330.	10731.	10733.	10050.
N	60.0	786.	789.	857.	1120.	1495.	2316.	7827.	10319.	9566.	9234.	8274.
G	57.5	972.	983.	1139.	1496.	1993.	3381.	9059.	10321.	9139.	8663.	7176.
L	55.0	1304.	1340.	1561.	2049.	2605.	5156.	9691.	10162.	8966.	8518.	6807.
E	52.5	1830.	1889.	2151.	2660.	3515.	7134.	10032.	9842.	8873.	8468.	6634.
	50.0	2494.	2576.	2856.	3629.	5351.	8177.	10160.	9541.	8789.	8421.	6475.
	47.5	3521.	3641.	4054.	5063.	6982.	8881.	9965.	9328.	8651.	8312.	6292.
	45.0	4547.	4650.	5055.	6250.	7952.	9255.	9695.	9128.	8475.	8145.	6056.
	42.5	5368.	5474.	5970.	7128.	8350.	9270.	9503.	8946.	8317.	7973.	5816.
	40.0	6102.	6245.	6625.	7396.	8434.	9237.	9275.	8768.	8204.	7857.	5688.
	37.5	6419.	6516.	6818.	7514.	8506.	9075.	8991.	8571.	8057.	7722.	5616.
	35.0	6656.	6759.	7018.	7619.	8381.	8815.	8651.	8303.	7830.	7509.	5509.
	30.0	6905.	6962.	7119.	7457.	7878.	8022.	7877.	7535.	7059.	6771.	5067.
	25.0	6707.	6740.	6824.	6983.	7139.	7203.	7093.	6734.	6279.	6000.	4623.
	20.0	6273.	6291.	6333.	6400.	6464.	6462.	6300.	5938.	5533.	5301.	4280.
	15.0	5866.	5870.	5884.	5868.	5829.	5746.	5550.	5196.	4868.	4703.	3991.
	10.0	5347.	5329.	5321.	5284.	5180.	5037.	4845.	4556.	4335.	4214.	3760.
	5.0	4565.	4544.	4529.	4499.	4407.	4316.	4187.	3992.	3867.	3816.	3593.
	0.0	3452.	3452.	3452.	3452.	3452.	3452.	3452.	3452.	3452.	3452.	3452.

||
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	5.	4.	3.	2.	1.	1.	0.	0.	0.	0.	0.
85.0	19.	16.	14.	12.	13.	16.	24.	41.	38.	11.	4.
V 82.5	81.	56.	49.	49.	55.	68.	104.	138.	143.	105.	103.
E 80.0	241.	164.	121.	107.	120.	143.	224.	282.	309.	294.	298.
R 77.5	600.	403.	203.	174.	201.	238.	375.	481.	546.	577.	585.
T 75.0	1732.	1121.	308.	252.	291.	341.	531.	706.	815.	875.	887.
I 72.5	4019.	2599.	452.	339.	406.	456.	694.	912.	1081.	1222.	1219.
C 70.0	6347.	4219.	669.	446.	540.	580.	838.	1053.	1313.	1467.	1460.
A 67.5	7695.	5384.	1006.	576.	709.	724.	967.	1147.	1464.	1681.	1656.
L 66.0<<	8362.	6041.	1298.	662.	826.	811.	1043.	1199.	1515.	1771.	1747.
65.0	8585.	6346.	1497.	724.	907.	871.	1096.	1235.	1546.	1805.	1792.
A 62.5	8865.	7035.	2112.	869.	1106.	1026.	1257.	1384.	1634.	1883.	1884.
N 60.0	7326.	6032.	2531.	974.	1263.	1183.	1469.	1597.	1825.	2021.	2028.
G 57.5	6048.	4822.	2184.	1039.	1390.	1338.	1677.	1860.	2074.	2238.	2234.
L 55.0	5435.	4224.	1982.	1093.	1480.	1425.	1796.	2053.	2286.	2430.	2418.
E 52.5	5092.	3842.	1841.	1123.	1517.	1422.	1766.	2093.	2303.	2443.	2441.
50.0	4818.	3551.	1728.	1133.	1502.	1357.	1608.	1944.	2103.	2201.	2210.
47.5	4568.	3293.	1638.	1130.	1453.	1316.	1398.	1635.	1773.	1831.	1845.
45.0	4339.	3079.	1588.	1120.	1393.	1322.	1255.	1359.	1407.	1436.	1452.
42.5	4158.	2939.	1576.	1107.	1328.	1363.	1201.	1226.	1234.	1239.	1245.
40.0	4100.	2915.	1598.	1090.	1265.	1410.	1239.	1201.	1203.	1205.	1207.
37.5	4117.	2943.	1625.	1088.	1212.	1433.	1337.	1239.	1224.	1224.	1221.
35.0	4112.	2967.	1653.	1117.	1179.	1417.	1441.	1332.	1281.	1271.	1264.
30.0	3946.	2952.	1756.	1226.	1124.	1314.	1537.	1570.	1513.	1483.	1468.
25.0	3782.	2984.	1926.	1384.	1177.	1197.	1369.	1549.	1671.	1711.	1713.
20.0	3677.	3074.	2148.	1623.	1331.	1214.	1203.	1278.	1385.	1438.	1450.
15.0	3585.	3169.	2423.	1948.	1631.	1408.	1299.	1247.	1230.	1230.	1231.
10.0	3513.	3262.	2763.	2335.	2066.	1846.	1693.	1581.	1500.	1474.	1462.
5.0	3478.	3359.	3123.	2880.	2686.	2493.	2365.	2274.	2219.	2172.	2171.
0.0	3452.	3452.	3452.	3452.	3452.	3452.	3452.	3452.	3452.	3452.	3452.

CONE OF MAXIMUM CANDELA



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	82
5- 10	245
10- 15	416
15- 20	607
20- 25	833
25- 30	1081
30- 35	1323
35- 40	1529
40- 45	1675
45- 50	1739
50- 55	1702
55- 60	1627
60- 65	1624
65- 70	1462
70- 75	909
75- 80	294
80- 85	60
85- 90	4
90- 95	0
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	327
0- 20	1350
0- 30	3264
0- 40	6115
0- 50	9529
0- 60	12858
0- 70	15945
0- 80	17148
0- 90	17212
0-100	17212
0-110	17212
0-120	17212
0-130	17212
0-140	17212
0-150	17212
0-160	17212
0-170	17212
0-180	17212



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