

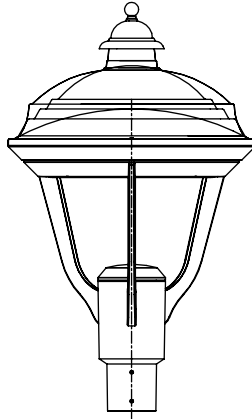
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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

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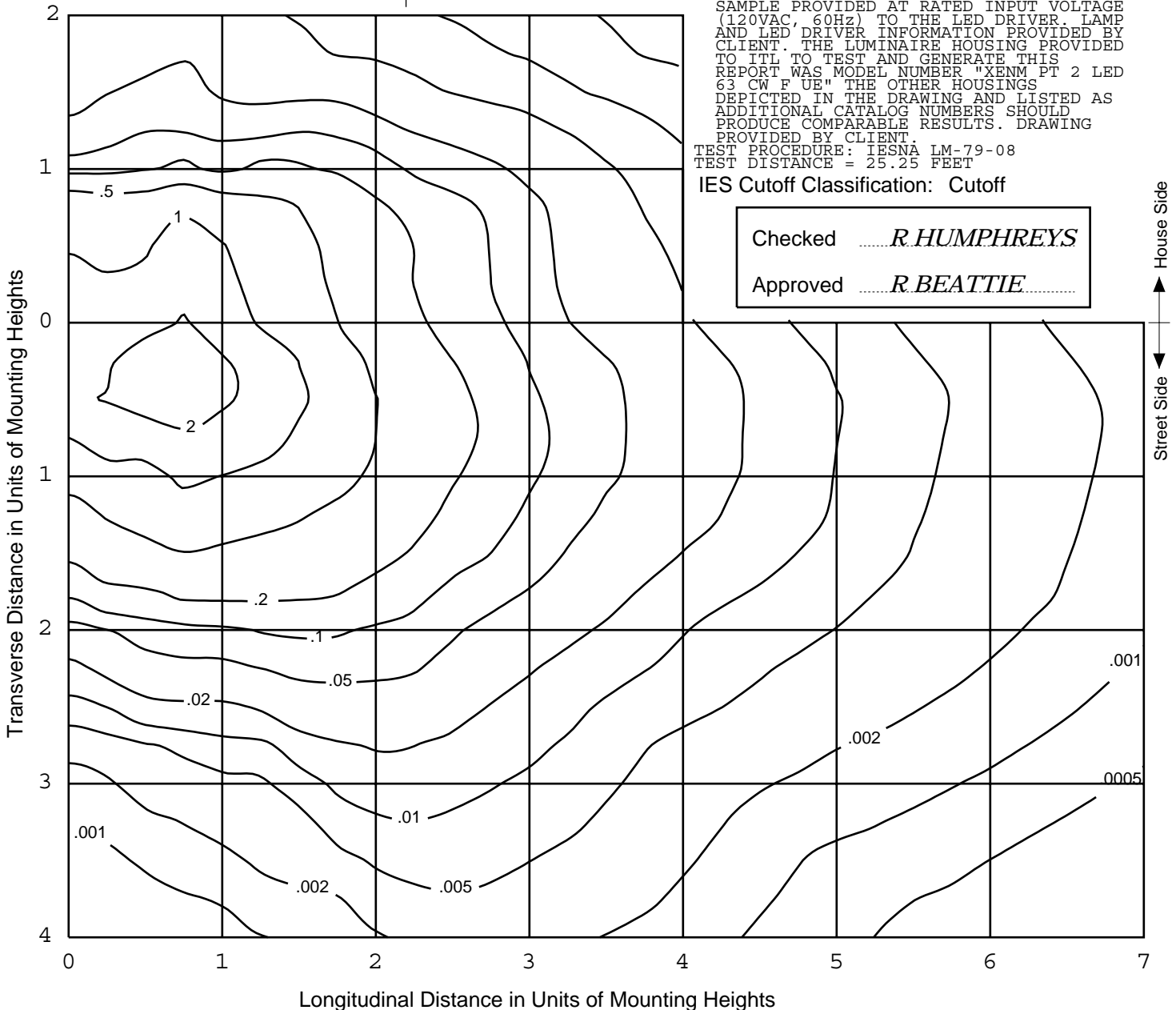
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

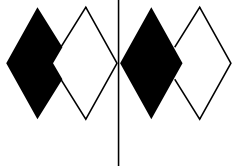
Values based on 20 foot mounting height.



REPORT NUMBER: ITL64430
DATE: 03/22/10
PREPARED FOR: LSI INDUSTRIES, INC.
CATALOG NUMBER: XENM/XINM/XLXM PT 2 LED
63 CW F UE
LUMINAIRE: CAST BLACK PAINTED METAL
POST TOP FITTER, CAST BLACK PAINTED
METAL POST TOP CAP, THREE FABRICATED
BLACK PAINTED METAL SUPPORT ARMS, FLAT
METAL CIRCUIT BOARD MOUNTING PLATE,
ONE CIRCUIT BOARD WITH 63 LEDS,
FABRICATED PREMIUM SPECULAR METAL
REFLECTOR WITH 4 "V" SHAPED INSERTS
BELOW 36 LEDS, FLAT PREMIUM SPECULAR
METAL REFLECTOR SURROUND, CAST BLACK
PAINTED METAL UPPER HOUSING WITH
FORMED BLACK PAINTED METAL TOP, CLEAR
FLAT GLASS LENS.
LAMPS: SIXTY-THREE 1.15-WATT WHITE
LIGHT EMITTING DIODES (LEDs) EACH WITH
CLEAR SEMI-HEMISPHERICAL INTEGRAL
LENS, VERTICAL BASE-UP POSITION.
TOTAL INPUT WATTS = 77.1 AT 120.0 VOLTS
LED DRIVER: LED ELECTRONIC 350mA DRIVER
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE LED DRIVER. LAMP
AND LED DRIVER INFORMATION PROVIDED BY
CLIENT. THE LUMINAIRE HOUSING PROVIDED
TO ITL TO TEST AND GENERATE THIS
REPORT WAS MODEL NUMBER "XENM PT 2 LED
63 CW F UE" THE OTHER HOUSINGS
DEPICTED IN THE DRAWING AND LISTED AS
ADDITIONAL CATALOG NUMBERS SHOULD
PRODUCE COMPARABLE RESULTS. DRAWING
PROVIDED BY CLIENT.
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 25.25 FEET

IES Cutoff Classification: Cutoff





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REPORT NUMBER: ITL64430

DATE: 03/22/10

PREPARED FOR: LSI INDUSTRIES, INC.

CATALOG NUMBER: XENM/XINM/XLXM PT 2 LED

63 CW F UE

LUMINAIRE: CAST BLACK PAINTED METAL
POST TOP FITTER, CAST BLACK PAINTED
METAL POST TOP CAP, THREE FABRICATED
BLACK PAINTED METAL SUPPORT ARMS, FLAT
METAL CIRCUIT BOARD MOUNTING PLATE,
ONE CIRCUIT BOARD WITH 63 LEDS,
FABRICATED PREMIUM SPECULAR METAL
REFLECTOR WITH 4 "V" SHAPED INSERTS
BELOW 36 LEDS, FLAT PREMIUM SPECULAR
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PAINTED METAL UPPER HOUSING WITH
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FLAT GLASS LENS.

LAMPS: SIXTY-THREE 1.15-WATT WHITE
LIGHT EMITTING DIODES (LEDs) EACH WITH
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LENS, VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS = 77.1 AT 120.0 VOLTS

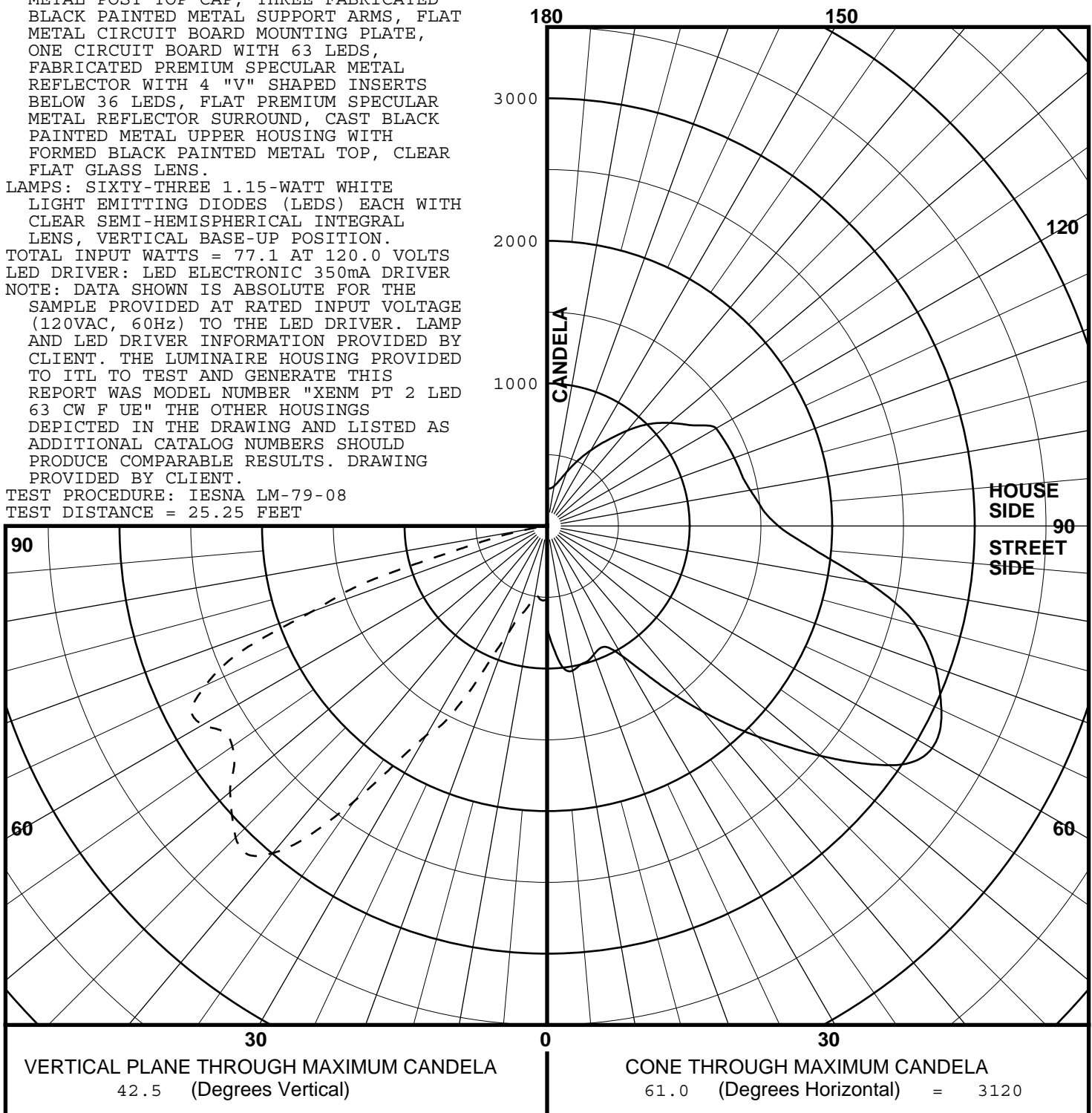
LED DRIVER: LED ELECTRONIC 350mA DRIVER

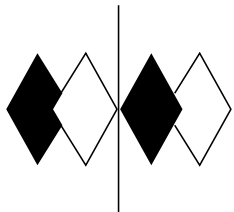
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE LED DRIVER. LAMP
AND LED DRIVER INFORMATION PROVIDED BY
CLIENT. THE LUMINAIRE HOUSING PROVIDED
TO ITL TO TEST AND GENERATE THIS
REPORT WAS MODEL NUMBER "XENM PT 2 LED
63 CW F UE" THE OTHER HOUSINGS
DEPICTED IN THE DRAWING AND LISTED AS
ADDITIONAL CATALOG NUMBERS SHOULD
PRODUCE COMPARABLE RESULTS. DRAWING
PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 25.25 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





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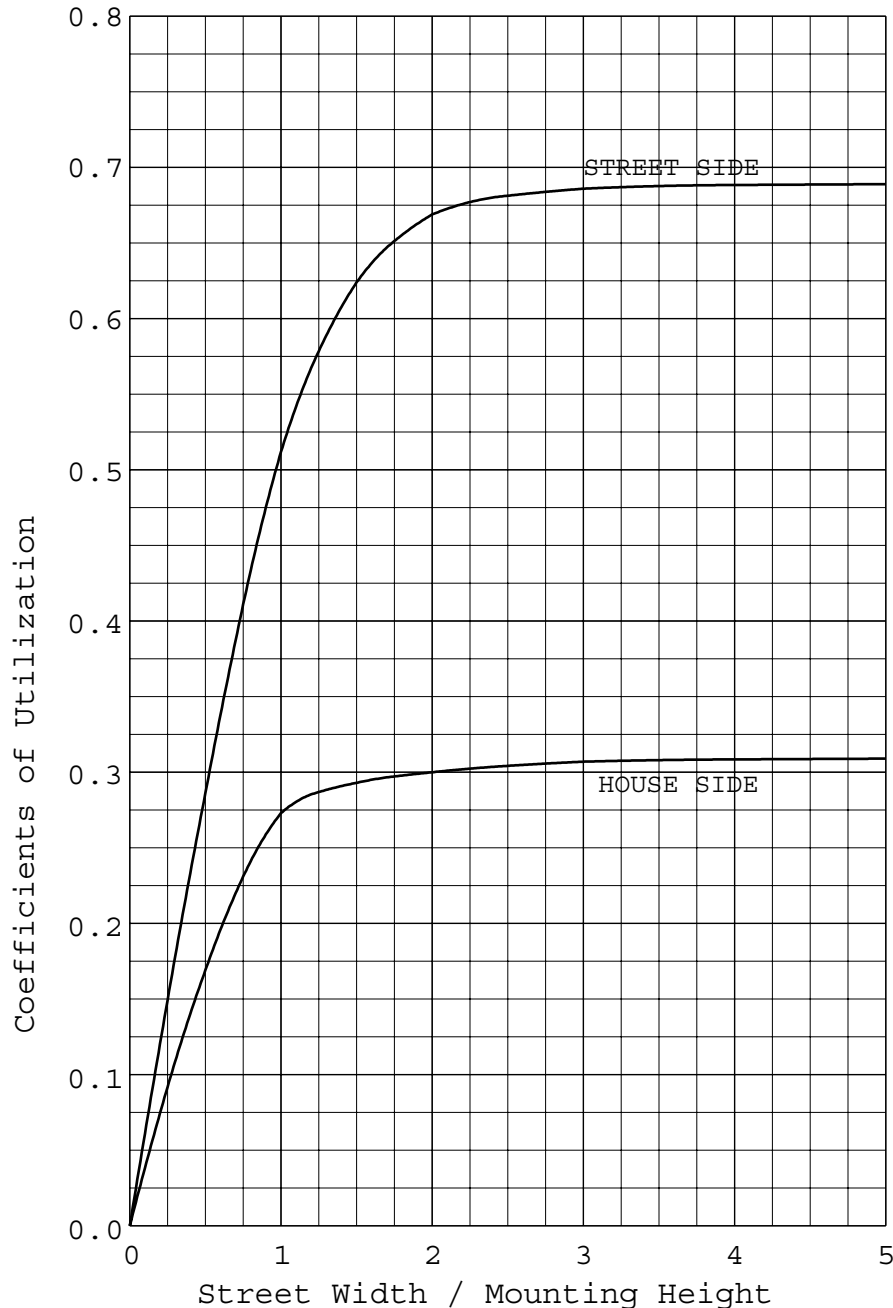
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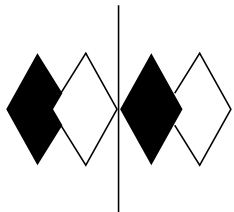
PREPARED FOR: LSI INDUSTRIES, INC.

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	3458.	68.9
DOWNWARD HOUSE SIDE	1555.	31.0
DOWNWARD TOTAL	5013.	99.9
UPWARD STREET SIDE	1.	0.0
UPWARD HOUSE SIDE	2.	0.0
UPWARD TOTAL	3.	0.1
TOTAL FLUX	5016.	100.0
EFFICACY = 65.1 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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PREPARED FOR: LSI INDUSTRIES, INC.

FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE
FORWARD LIGHT	3458.	68.9
FL (0- 30)		7.7
FM (30- 60)		41.2
FH (60- 80)		19.6
FVH(80- 90)		0.4
BACK LIGHT	1555.	31.0
BL (0- 30)		4.7
BM (30- 60)		18.7
BH (60- 80)		7.5
BVH(80- 90)		0.2
UPLIGHT	3.	0.1
UL (90-100)		0.0
UH (100-180)		0.0
TRAPPED LIGHT	0.	0.0
TOTAL FLUX	5016.	100.0

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

BUG RATING: B1 U1 G1	FIRST DETERMINING SECONDARY SOLID ANGLE*	LUMENS
BACKLIGHT RATING: B1	BH	374.3
UPLIGHT RATING : U1	UH	1.7
GLARE RATING : G1	FVH	18.6

* NOTE: OTHER DETERMINING SOLID ANGLES MAY FALL INTO THIS SAME CATEGORY. ONLY THE FIRST DETERMINING ANGLES FROM THE TABLES A1-A3 IN THE ADDENDUM ARE SHOWN.



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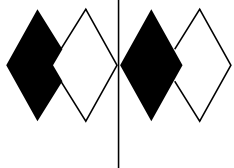
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REPORT NUMBER: ITL64430
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DATE: 03/22/10

CANDELA TABULATION

	STREET SIDE										
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	61.0	65.0	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.	1.	1.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
	95.0	0.	0.	0.	0.	0.	1.	2.	2.	2.	2.
	92.5	0.	0.	0.	0.	2.	2.	3.	2.	2.	2.
	90.0	0.	0.	0.	0.	2.	3.	3.	3.	2.	2.
	87.5	0.	0.	1.	2.	4.	5.	5.	5.	4.	4.
	85.0	2.	2.	4.	6.	10.	11.	12.	14.	14.	17.
V	82.5	4.	4.	7.	11.	25.	21.	29.	41.	65.	149.
E	80.0	6.	6.	13.	20.	59.	101.	98.	160.	220.	385.
R	77.5	10.	11.	21.	41.	201.	247.	244.	365.	394.	764.
T	75.0	13.	15.	29.	76.	308.	394.	522.	669.	815.	1138.
I	72.5	17.	20.	43.	76.	379.	789.	873.	1383.	1465.	1622.
C	70.0	24.	29.	69.	172.	598.	1030.	1748.	1755.	1876.	2020.
A	67.5	72.	93.	220.	318.	760.	1723.	2110.	2360.	2501.	2341.
L	65.0	112.	148.	303.	461.	1211.	1948.	2353.	2643.	2731.	2478.
	62.5	168.	224.	394.	1017.	1572.	1965.	2468.	2813.	2767.	2600.
A	60.0	394.	534.	763.	1399.	1643.	1997.	2563.	2789.	2751.	2885.
N	57.5	510.	701.	931.	1486.	1735.	1985.	2614.	2689.	2753.	2854.
G	55.0	554.	754.	960.	1359.	1812.	2045.	2498.	2696.	2872.	2763.
L	52.5	596.	805.	938.	1174.	1796.	2133.	2366.	2768.	2971.	2702.
E	50.0	629.	847.	937.	1033.	1710.	2181.	2377.	2904.	2999.	2614.
	47.5	659.	886.	960.	961.	1594.	2142.	2539.	2999.	3023.	2560.
	45.0	700.	916.	978.	936.	1435.	2078.	2776.	3091.	3058.	2615.
	43.0	714.	949.	992.	941.	1355.	2095.	2916.	3120.	3063.	2646.
	42.5<<	719.	949.	995.	936.	1334.	2088.	2926.	3120.	3052.	2679.
	40.0	740.	965.	1018.	941.	1293.	2096.	2873.	2996.	2944.	2676.
	37.5	760.	993.	1075.	1002.	1305.	1997.	2612.	2732.	2705.	2524.
	35.0	830.	1033.	1147.	1119.	1355.	1889.	2258.	2354.	2332.	2189.
	30.0	1005.	1137.	1275.	1266.	1195.	1499.	1698.	1697.	1698.	1406.
	25.0	1002.	1114.	1185.	1130.	1087.	1095.	1215.	1267.	1268.	1078.
	20.0	905.	968.	977.	913.	903.	875.	786.	808.	789.	734.
	15.0	801.	803.	824.	779.	750.	716.	650.	622.	598.	542.
	10.0	645.	650.	643.	632.	585.	559.	525.	506.	496.	483.
	5.0	545.	543.	542.	536.	516.	530.	521.	519.	516.	500.
	0.0	516.	516.	516.	516.	516.	516.	516.	516.	516.	516.
								PLANE OF MAXIMUM CANDELA			
								CONE OF MAXIMUM CANDELA			



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REPORT NUMBER: ITL64430
PREPARED FOR: LSI INDUSTRIES, INC.

DATE: 03/22/10

CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE								
	90.0	95.0	105.0	115.0	120.0	125.0	135.0	145.0	155.0	165.0	175.0
	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	1.	2.	2.	1.	1.	1.	0.	0.	0.	0.
	125.0	1.	2.	2.	2.	2.	2.	1.	1.	0.	0.
	115.0	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.
	105.0	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
	95.0	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.
	92.5	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.
	90.0	2.	2.	2.	1.	1.	1.	1.	0.	1.	0.
	87.5	3.	3.	3.	2.	2.	1.	1.	1.	1.	1.
	85.0	14.	12.	8.	6.	7.	5.	4.	4.	3.	3.
V	82.5	113.	91.	39.	26.	26.	18.	16.	16.	9.	8.
E	80.0	283.	250.	100.	54.	48.	34.	37.	65.	24.	24.
R	77.5	479.	419.	264.	119.	91.	60.	53.	136.	59.	43.
T	75.0	691.	595.	444.	184.	168.	122.	80.	133.	90.	48.
I	72.5	818.	706.	750.	311.	187.	163.	116.	115.	125.	166.
C	70.0	1153.	1025.	1095.	444.	279.	194.	129.	132.	136.	260.
A	67.5	1257.	1116.	1232.	627.	462.	279.	149.	151.	153.	189.
L	65.0	1376.	1244.	1361.	1009.	640.	466.	190.	148.	172.	130.
	62.5	1521.	1392.	1475.	1435.	902.	604.	211.	142.	199.	109.
A	60.0	1671.	1524.	1552.	1563.	1270.	668.	239.	150.	210.	123.
N	57.5	1704.	1530.	1505.	1530.	1444.	892.	268.	182.	184.	145.
G	55.0	1618.	1480.	1435.	1479.	1407.	1166.	314.	234.	186.	146.
L	52.5	1557.	1440.	1395.	1392.	1368.	1243.	529.	270.	206.	148.
E	50.0	1504.	1377.	1307.	1371.	1407.	1293.	952.	344.	203.	142.
	47.5	1472.	1356.	1349.	1384.	1403.	1320.	1150.	552.	213.	134.
	45.0	1550.	1438.	1383.	1384.	1389.	1318.	1088.	716.	305.	172.
	43.0	1592.	1480.	1404.	1381.	1373.	1268.	1025.	726.	441.	268.
	42.5<<	1622.	1508.	1411.	1383.	1369.	1232.	1011.	733.	503.	329.
	40.0	1719.	1616.	1422.	1309.	1221.	1092.	936.	724.	615.	519.
	37.5	1700.	1589.	1352.	1160.	1039.	955.	780.	702.	635.	587.
	35.0	1521.	1398.	1183.	1005.	876.	784.	683.	661.	633.	593.
	30.0	991.	899.	785.	694.	654.	638.	609.	593.	573.	571.
	25.0	824.	773.	691.	628.	613.	594.	578.	533.	511.	510.
	20.0	703.	720.	655.	591.	560.	538.	490.	480.	476.	485.
	15.0	552.	566.	549.	538.	507.	489.	495.	479.	464.	442.
	10.0	484.	494.	463.	459.	464.	451.	453.	446.	444.	431.
	5.0	473.	479.	504.	482.	477.	471.	451.	458.	473.	517.
	0.0	516.	516.	516.	516.	516.	516.	516.	516.	516.	516.

CONE OF MAXIMUM CANDELA



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DATE: 03/22/10

CANDELA TABULATION

HOUSE SIDE		LATERAL ANGLE
180.0		
	180.0	0.
	175.0	0.
	165.0	0.
	155.0	0.
	145.0	0.
	135.0	0.
	125.0	0.
	115.0	0.
	105.0	0.
	95.0	0.
	92.5	0.
	90.0	0.
	87.5	1.
	85.0	2.
V	82.5	3.
E	80.0	5.
R	77.5	12.
T	75.0	22.
I	72.5	30.
C	70.0	38.
A	67.5	67.
L	65.0	105.
	62.5	117.
A	60.0	109.
N	57.5	90.
G	55.0	83.
L	52.5	90.
E	50.0	102.
	47.5	115.
	45.0	139.
	43.0	208.
	42.5<<	258.
	40.0	481.
	37.5	608.
	35.0	632.
	30.0	595.
	25.0	504.
	20.0	481.
	15.0	489.
	10.0	520.
	5.0	519.
	0.0	516.

CONE OF MAXIMUM CANDELA