

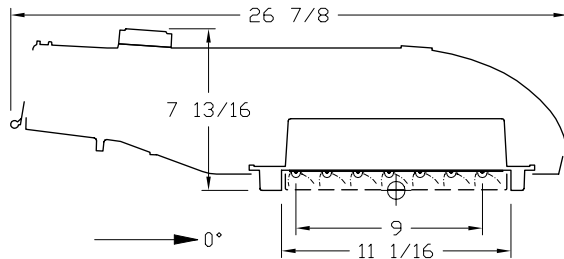


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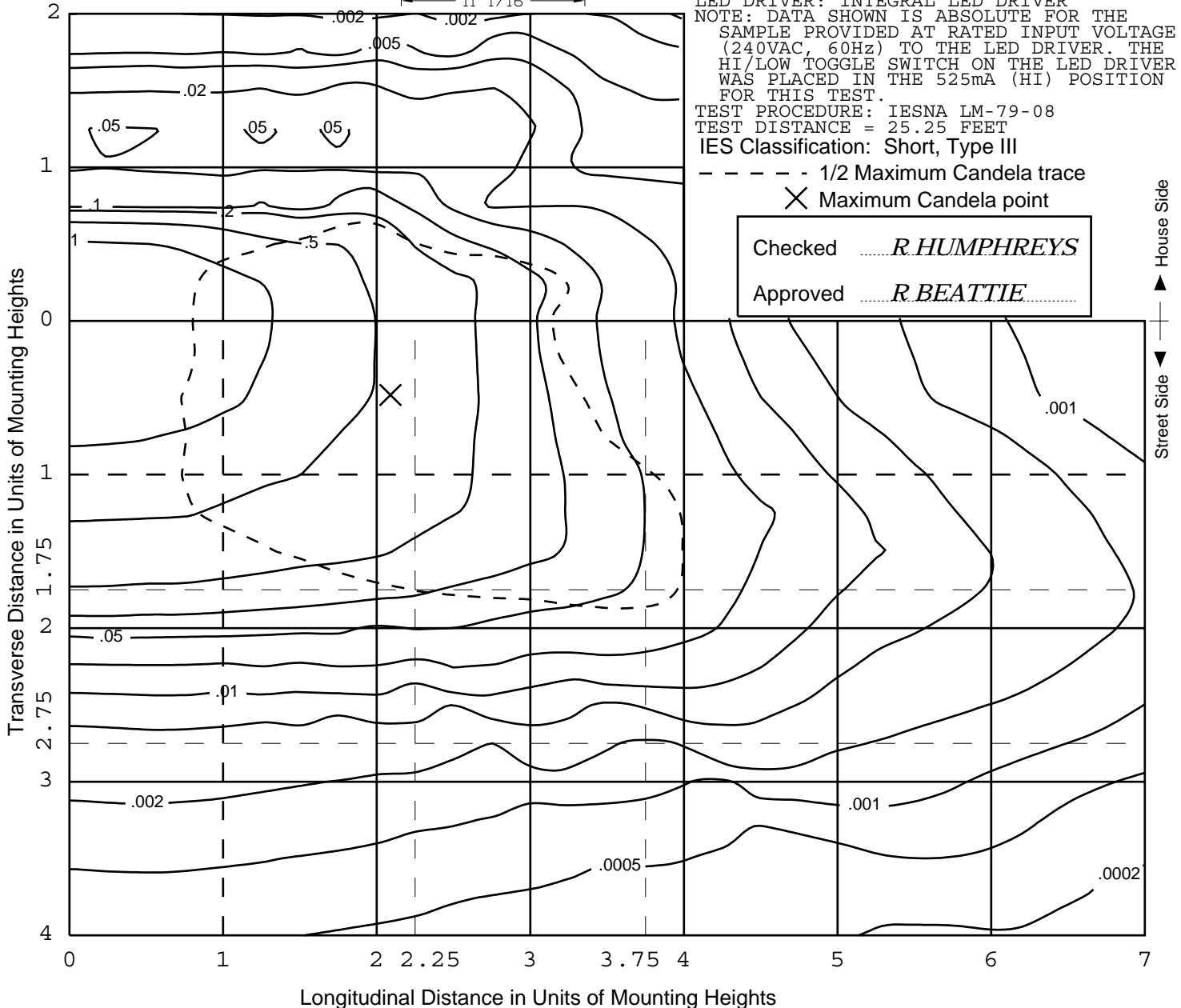
INDEPENDENT TESTING LABORATORIES, INC.
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

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 25 foot mounting height.



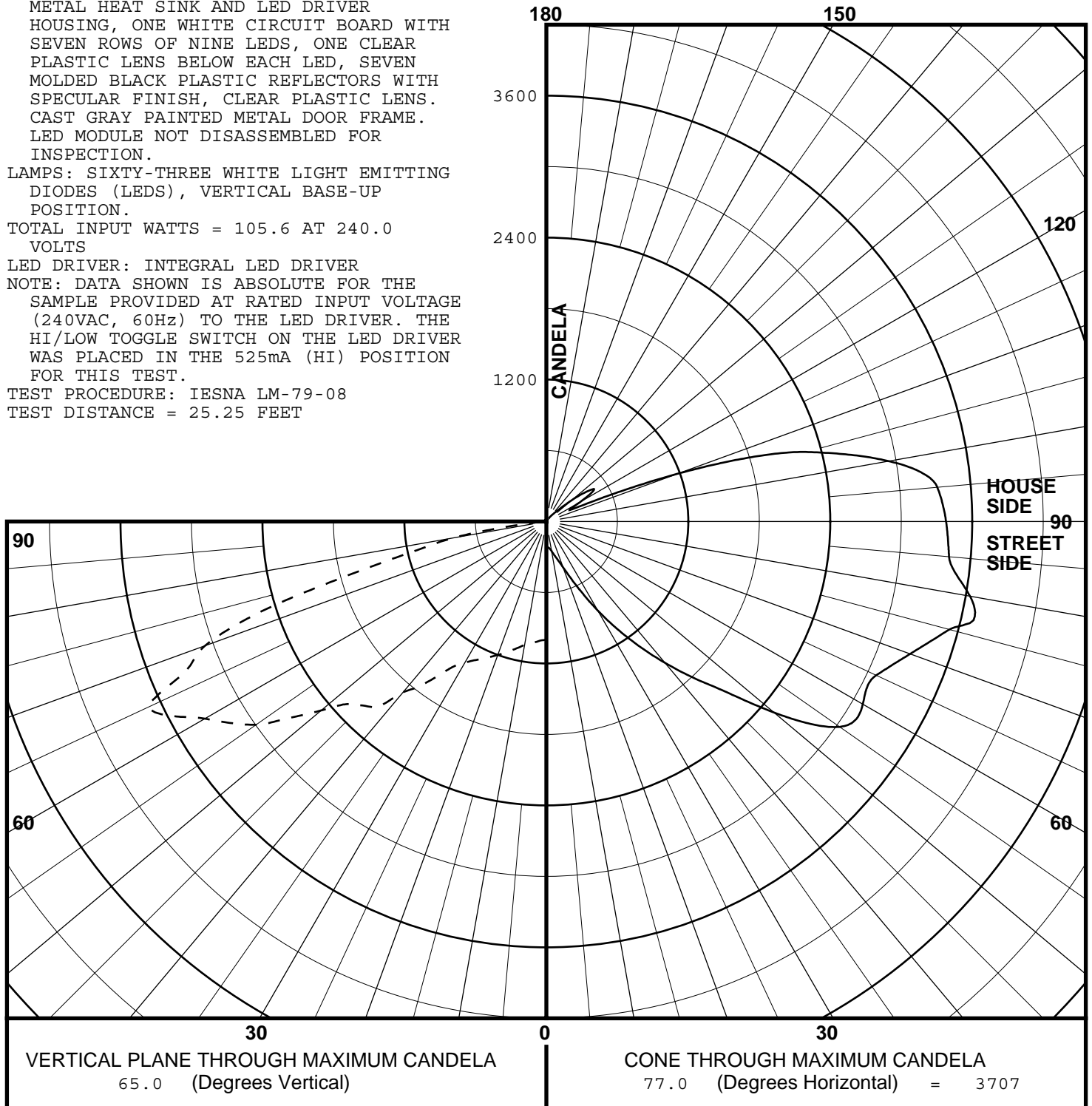
REPORT NUMBER: ITL65048
 DATE: 06/04/10
 PREPARED FOR: ECOFIT LIGHTING
 CATALOG NUMBER: DURASTREET 63 SERIES,
 525mA, TYPE 2/3
 LUMINAIRE: CAST METAL HOUSING. ONE LED
 MODULE CONSISTING OF: CAST FINNED
 METAL HEAT SINK AND LED DRIVER
 HOUSING, ONE WHITE CIRCUIT BOARD WITH
 SEVEN ROWS OF NINE LEADS, ONE CLEAR
 PLASTIC LENS BELOW EACH LED, SEVEN
 MOLDED BLACK PLASTIC REFLECTORS WITH
 SPECULAR FINISH, CLEAR PLASTIC LENS.
 CAST GRAY PAINTED METAL DOOR FRAME.
 LED MODULE NOT DISASSEMBLED FOR
 INSPECTION.
 LAMPS: SIXTY-THREE WHITE LIGHT EMITTING
 DIODES (LEDS), VERTICAL BASE-UP
 POSITION.
 TOTAL INPUT WATTS = 105.6 AT 240.0 VOLTS
 LED DRIVER: INTEGRAL LED DRIVER
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
 SAMPLE PROVIDED AT RATED INPUT VOLTAGE
 (240VAC, 60Hz) TO THE LED DRIVER. THE
 HI/LOW TOGGLE SWITCH ON THE LED DRIVER
 WAS PLACED IN THE 525mA (HI) POSITION
 FOR THIS TEST.
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 25.25 FEET
 IES Classification: Short, Type III





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 DATE: 06/04/10
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 525mA, TYPE 2/3
 LUMINAIRE: CAST METAL HOUSING. ONE LED
 MODULE CONSISTING OF: CAST FINNED
 METAL HEAT SINK AND LED DRIVER
 HOUSING, ONE WHITE CIRCUIT BOARD WITH
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 PLASTIC LENS BELOW EACH LED, SEVEN
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 TEST DISTANCE = 25.25 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





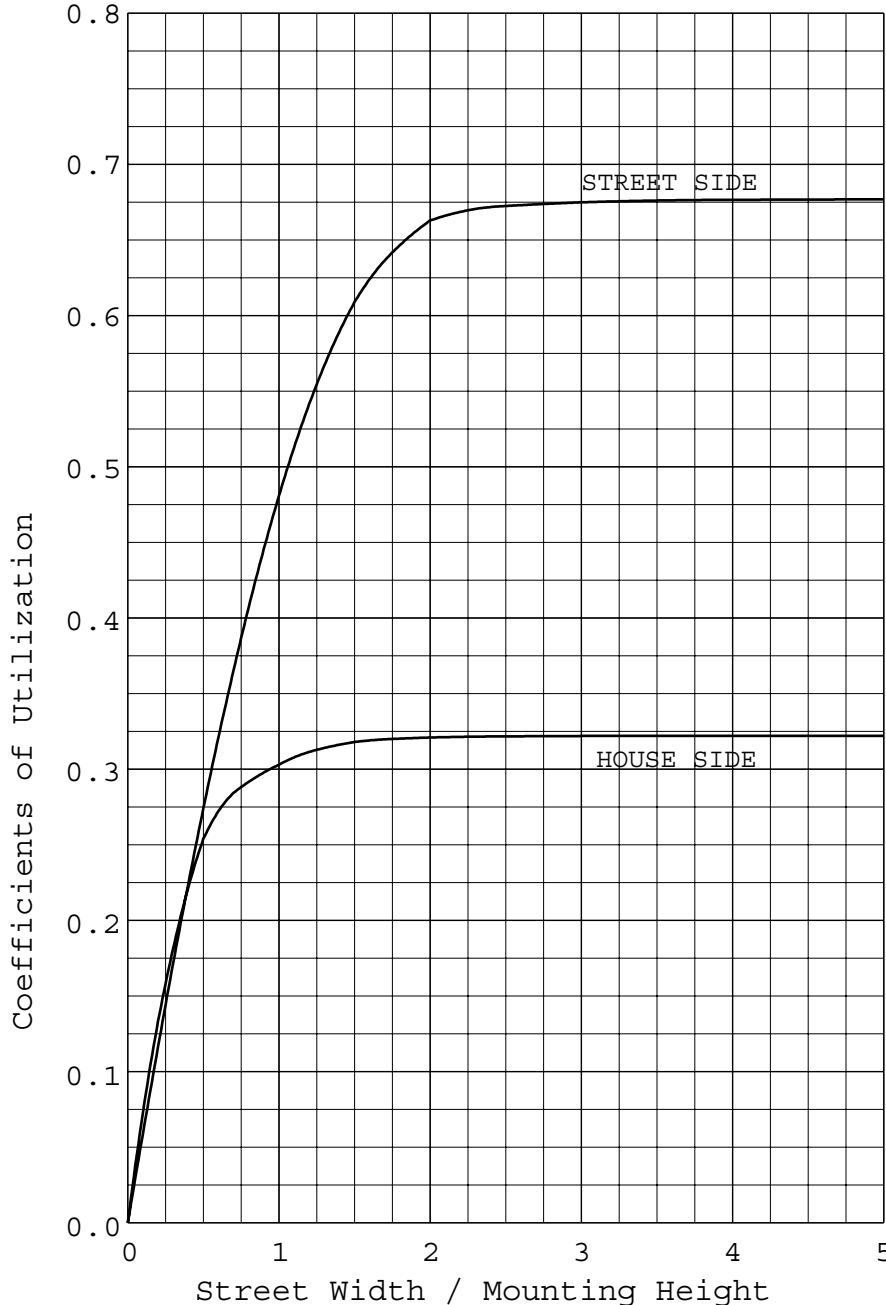
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	3997.	67.7
DOWNWARD HOUSE SIDE	1903.	32.3
DOWNWARD TOTAL	5900.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	5900.	100.0
EFFICACY = 55.9 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	BUG ZONE RATINGS
FORWARD LIGHT	3997.	67.7	
FL (0- 30)	493.6	8.4	
FM (30- 60)	2124.0	36.0	
FH (60- 80)	1352.8	22.9	G1
FVH(80- 90)	26.6	0.5	U1 G1
BACK LIGHT	1903.	32.3	
BL (0- 30)	453.8	7.7	B1
BM (30- 60)	991.6	16.8	B1
BH (60- 80)	450.3	7.6	B1 G1
BVH(80- 90)	7.3	0.1	U0 G0
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	5900.	100.0	

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

BUG RATING: B1 U1 G1



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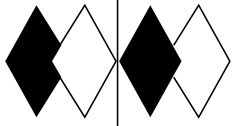
DATE: 06/04/10

CANDELA TABULATION

	STREET SIDE											LATERAL ANGLE										
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	77.0	85.0	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	77.0	85.0
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	2.	2.	2.	2.	4.	5.	7.	11.	18.	19.	87.5	2.	2.	2.	4.	5.	7.	11.	18.	19.	12.
	85.0	3.	4.	4.	5.	7.	10.	15.	28.	71.	69.	85.0	3.	4.	4.	5.	7.	10.	15.	28.	71.	44.
	82.5	5.	6.	7.	8.	12.	17.	28.	74.	359.	327.	82.5	5.	6.	7.	8.	12.	17.	28.	74.	359.	113.
	80.0	9.	10.	12.	15.	20.	30.	54.	397.	1094.	803.	80.0	9.	10.	12.	15.	20.	30.	54.	397.	1094.	207.
	77.5	17.	18.	20.	25.	33.	50.	133.	1596.	1568.	1122.	77.5	17.	18.	20.	25.	33.	50.	133.	1596.	1568.	534.
	75.0	28.	29.	33.	40.	53.	89.	599.	2918.	2049.	1681.	75.0	28.	29.	33.	40.	53.	89.	599.	2918.	2049.	1135.
	72.5	41.	43.	49.	59.	86.	299.	1756.	3628.	2777.	2524.	72.5	41.	43.	49.	59.	86.	299.	1756.	3628.	2777.	1924.
	70.0	58.	60.	69.	90.	215.	896.	2542.	3466.	3083.	3071.	70.0	58.	60.	69.	90.	215.	896.	2542.	3466.	3083.	2758.
	67.5	89.	92.	122.	224.	614.	1625.	2999.	3153.	3162.	3295.	67.5	89.	92.	122.	224.	614.	1625.	2999.	3153.	3162.	3077.
	65.0<<	215.	223.	314.	594.	1197.	1953.	3027.	3077.	3526.	3707.	65.0<<	215.	223.	314.	594.	1197.	1953.	3027.	3077.	3526.	3417.
	62.5	531.	550.	743.	1118.	1558.	2112.	2883.	3006.	3466.	3562.	62.5	531.	550.	743.	1118.	1558.	2112.	2883.	3006.	3466.	3480.
	60.0	1002.	1015.	1128.	1409.	1790.	2141.	2613.	2958.	3412.	3333.	60.0	1002.	1015.	1128.	1409.	1790.	2141.	2613.	2958.	3412.	3247.
	57.5	1249.	1253.	1328.	1563.	1926.	2059.	2382.	2910.	3265.	3169.	57.5	1249.	1253.	1328.	1563.	1926.	2059.	2382.	2910.	3265.	3167.
V	55.0	1350.	1350.	1415.	1621.	1911.	1942.	2219.	2777.	3043.	2997.	V	55.0	1350.	1350.	1415.	1621.	1911.	1942.	2219.	2777.	3028.
E	52.5	1388.	1386.	1441.	1605.	1887.	1951.	2142.	2614.	2695.	2723.	E	52.5	1388.	1386.	1441.	1605.	1887.	1951.	2142.	2614.	2846.
R	50.0	1380.	1379.	1432.	1575.	1836.	1895.	2175.	2496.	2448.	2485.	R	50.0	1380.	1379.	1432.	1575.	1836.	1895.	2175.	2496.	2612.
T	47.5	1373.	1373.	1406.	1532.	1720.	1852.	2148.	2344.	2228.	2284.	T	47.5	1373.	1373.	1406.	1532.	1720.	1852.	2148.	2344.	2409.
I	45.0	1354.	1360.	1391.	1480.	1627.	1820.	1966.	2248.	2187.	2200.	I	45.0	1354.	1360.	1391.	1480.	1627.	1820.	1966.	2248.	2248.
C	42.5	1333.	1334.	1364.	1450.	1585.	1745.	1889.	1954.	2068.	2131.	C	42.5	1333.	1334.	1364.	1450.	1585.	1745.	1889.	1954.	2261.
A	40.0	1327.	1331.	1360.	1438.	1543.	1689.	1822.	1761.	1847.	1883.	A	40.0	1327.	1331.	1360.	1438.	1543.	1689.	1822.	1761.	1952.
L	37.5	1325.	1328.	1353.	1413.	1505.	1631.	1642.	1629.	1731.	1751.	L	37.5	1325.	1328.	1353.	1413.	1505.	1631.	1642.	1629.	1786.
	35.0	1311.	1312.	1334.	1388.	1468.	1560.	1506.	1459.	1559.	1589.		35.0	1311.	1312.	1334.	1388.	1468.	1560.	1506.	1459.	1645.
A	32.5	1298.	1298.	1318.	1367.	1436.	1476.	1393.	1390.	1439.	1450.	A	32.5	1298.	1298.	1318.	1367.	1436.	1476.	1393.	1390.	1457.
N	30.0	1282.	1288.	1307.	1347.	1389.	1370.	1315.	1332.	1370.	1377.	N	30.0	1282.	1288.	1307.	1347.	1389.	1370.	1315.	1332.	1385.
G	27.5	1280.	1280.	1292.	1311.	1312.	1268.	1269.	1294.	1320.	1323.	G	27.5	1280.	1280.	1292.	1311.	1312.	1268.	1269.	1294.	1325.
L	25.0	1250.	1248.	1251.	1245.	1214.	1206.	1225.	1256.	1277.	1280.	L	25.0	1250.	1248.	1251.	1245.	1214.	1206.	1225.	1256.	1279.
E	22.5	1186.	1186.	1177.	1157.	1147.	1165.	1191.	1220.	1238.	1240.	E	22.5	1186.	1186.	1177.	1157.	1147.	1165.	1191.	1220.	1240.
	20.0	1109.	1110.	1106.	1106.	1114.	1133.	1159.	1183.	1199.	1201.		20.0	1109.	1110.	1106.	1106.	1114.	1133.	1159.	1183.	1203.
	17.5	1071.	1073.	1077.	1081.	1087.	1108.	1129.	1148.	1162.	1163.		17.5	1071.	1073.	1077.	1081.	1087.	1108.	1129.	1148.	1164.
	15.0	1052.	1054.	1058.	1065.	1071.	1083.	1102.	1114.	1124.	1126.		15.0	1052.	1054.	1058.	1065.	1071.	1083.	1102.	1114.	1125.
	12.5	1041.	1041.	1045.	1053.	1056.	1063.	1072.	1081.	1090.	1092.		12.5	1041.	1041.	1045.	1053.	1056.	1063.	1072.	1081.	1092.
	10.0	1029.	1030.	1032.	1035.	1042.	1046.	1051.	1055.	1058.	1058.		10.0	1029.	1030.	1032.	1035.	1042.	1046.	1051.	1055.	1058.
	7.5	1009.	1012.	1016.	1020.	1025.	1030.	1033.	1035.	1037.	1037.		7.5	1009.	1012.	1016.	1020.	1025.	1030.	1033.	1035.	1037.
	5.0	1004.	1003.	1004.	1008.	1014.	1017.	1018.	1021.	1022.	1023.		5.0	1004.	1003.	1004.	1008.	1014.	1017.	1018.	1021.	1023.
	2.5	1001.	1002.	1000.	1000.	1002.	1003.	1004.	1004.	1006.	1006.		2.5	1001.	1002.	1000.	1000.	1002.	1003.	1004.	1004.	1008.
	0.0	999.	999.	999.	999.	999.	999.	999.	999.	999.	999.		0.0	999.	999.	999.	999.	999.	999.	999.	999.	999.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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DATE: 06/04/10

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
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	11.	10.	8.	5.	3.	2.	2.	2.	1.	1.
	85.0	38.	27.	18.	11.	7.	4.	3.	2.	2.	1.
	82.5	99.	64.	40.	20.	13.	7.	5.	4.	3.	2.
	80.0	166.	133.	183.	27.	20.	11.	7.	5.	4.	3.
	77.5	377.	444.	478.	45.	23.	14.	9.	7.	5.	4.
	75.0	1014.	1032.	276.	210.	25.	18.	12.	9.	8.	6.
	72.5	1785.	2025.	208.	694.	43.	20.	15.	11.	9.	8.
	70.0	2644.	2869.	294.	720.	147.	25.	16.	13.	12.	10.
	67.5	3049.	3067.	974.	426.	387.	46.	20.	15.	13.	12.
	65.0<<	3379.	3318.	2271.	265.	475.	125.	29.	17.	15.	13.
	62.5	3504.	3362.	2995.	230.	348.	239.	67.	26.	18.	15.
	60.0	3250.	3135.	3112.	251.	224.	286.	141.	55.	32.	24.
	57.5	3135.	3042.	2986.	359.	160.	205.	191.	112.	67.	48.
V	55.0	3004.	2890.	2898.	813.	136.	152.	175.	160.	105.	92.
E	52.5	2828.	2745.	2704.	1506.	152.	128.	131.	155.	150.	123.
R	50.0	2606.	2543.	2433.	1892.	198.	132.	106.	126.	130.	128.
T	47.5	2409.	2351.	2222.	1867.	388.	122.	93.	94.	103.	107.
I	45.0	2236.	2184.	2113.	2048.	867.	135.	89.	75.	85.	85.
C	42.5	2273.	2236.	2037.	1827.	1338.	204.	97.	75.	80.	79.
A	40.0	1953.	1919.	1788.	1699.	1449.	464.	123.	87.	82.	77.
L	37.5	1784.	1764.	1668.	1610.	1385.	961.	222.	109.	92.	82.
	35.0	1649.	1620.	1513.	1436.	1346.	1182.	585.	185.	118.	101.
A	32.5	1454.	1439.	1388.	1344.	1300.	1178.	1002.	500.	238.	171.
N	30.0	1380.	1365.	1327.	1274.	1257.	1178.	1065.	942.	669.	497.
G	27.5	1321.	1307.	1282.	1227.	1202.	1157.	1082.	1009.	967.	919.
L	25.0	1274.	1264.	1242.	1194.	1155.	1134.	1088.	1040.	1002.	975.
E	22.5	1235.	1226.	1206.	1166.	1121.	1096.	1079.	1039.	1023.	1013.
	20.0	1198.	1189.	1170.	1140.	1091.	1063.	1048.	1036.	1023.	1013.
	17.5	1160.	1153.	1132.	1108.	1071.	1038.	1024.	1018.	1018.	1017.
	15.0	1123.	1115.	1099.	1081.	1057.	1028.	1008.	1000.	999.	997.
	12.5	1087.	1083.	1070.	1057.	1042.	1025.	1008.	999.	990.	987.
	10.0	1054.	1052.	1045.	1040.	1032.	1022.	1013.	1004.	997.	994.
	7.5	1034.	1031.	1030.	1025.	1020.	1015.	1010.	1005.	1000.	999.
	5.0	1020.	1017.	1016.	1013.	1011.	1008.	1004.	1001.	999.	1000.
	2.5	1005.	1004.	1004.	1003.	1002.	1000.	997.	995.	995.	994.
	0.0	999.	999.	999.	999.	999.	999.	999.	999.	999.	999.

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