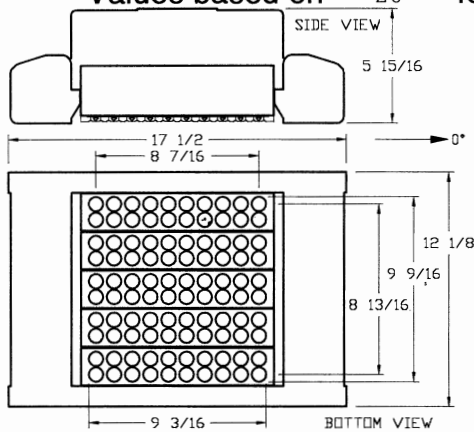


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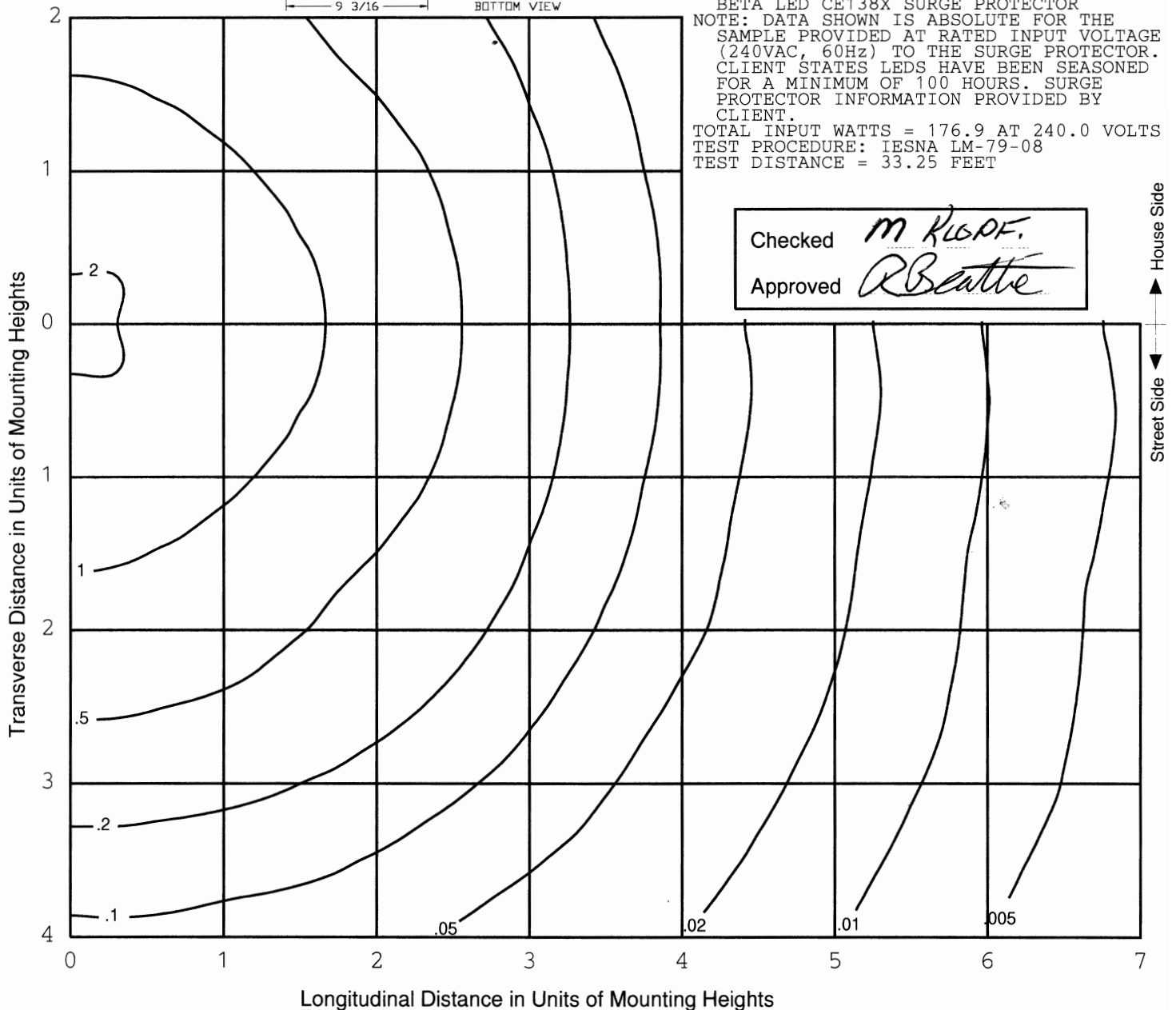
INDEPENDENT TESTING LABORATORIES, INC.
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

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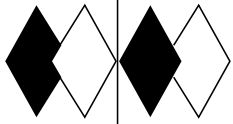
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
 Values based on 20 foot mounting height.



REPORT NUMBER: ITL66230
 DATE: 09/29/10
 PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING
 CATALOG NUMBER: PKG-EDG-5M-**-10-C-UL-525 or BXPS0510C-UC (525mA)
 LUMINAIRE: EXTRUDED GRAY PAINTED METAL HOUSING WITH CAST GRAY PAINTED METAL END CAPS, FABRICATED WIRE CAGE MOUNTING ASSEMBLY, FIVE EXTRUDED FINNED METAL HEAT SINKS, EACH HEAT SINK CONTAINS ONE CIRCUIT BOARD WITH 20 LEDS, CAST GRAY PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED.
 LAMPS: ONE HUNDRED WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.
 LED DRIVER: ADVANCE LED-INTA-0700C-210-FO, ADVANCE LED-INTA-0350C-425-FO, BETA LED CE138X SURGE PROTECTOR
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE SURGE PROTECTOR. CLIENT STATES LEDS HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS. SURGE PROTECTOR INFORMATION PROVIDED BY CLIENT.
 TOTAL INPUT WATTS = 176.9 AT 240.0 VOLTS
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 33.25 FEET

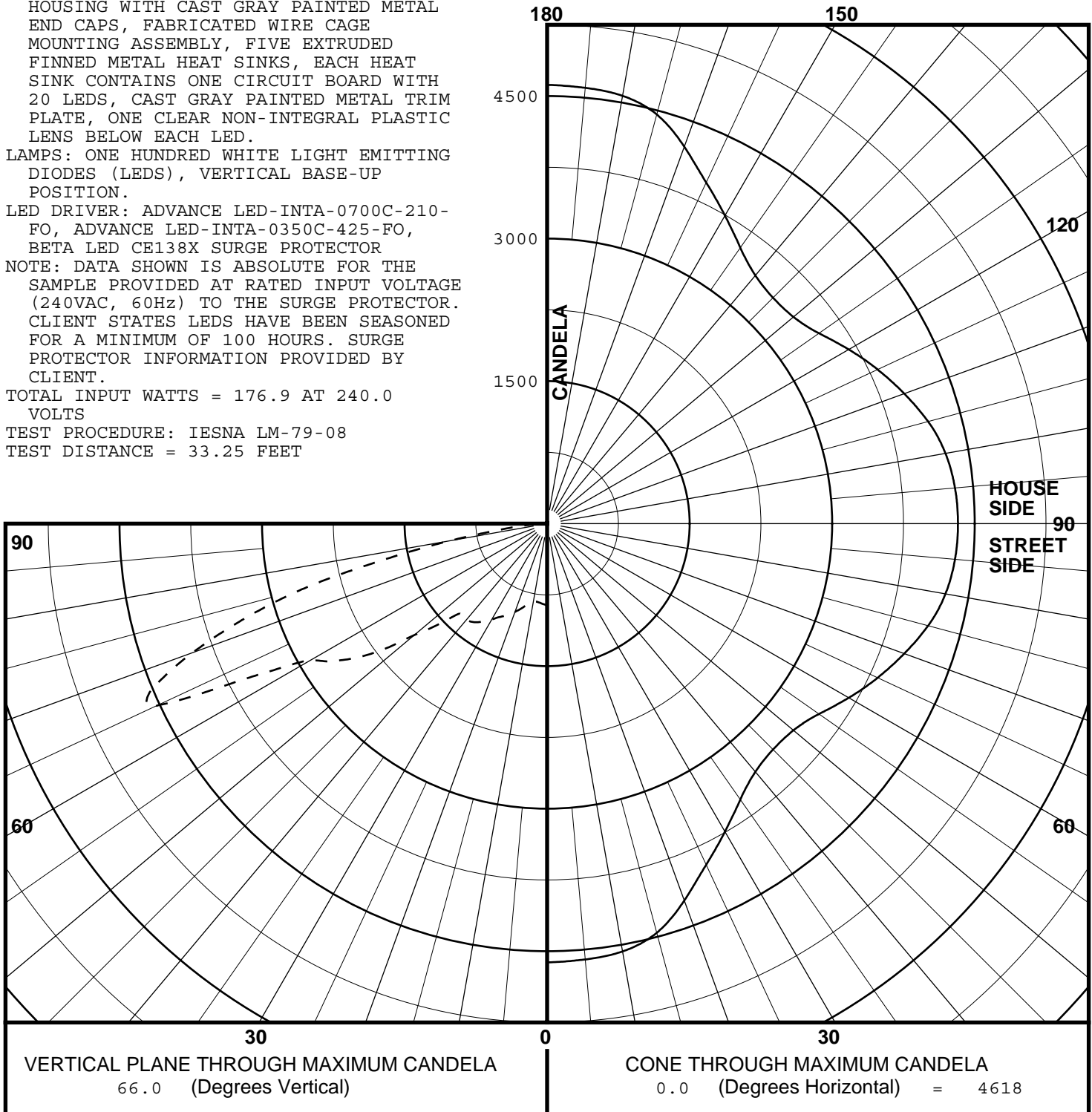


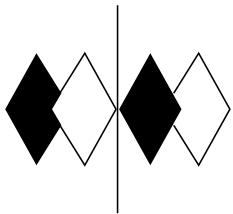
THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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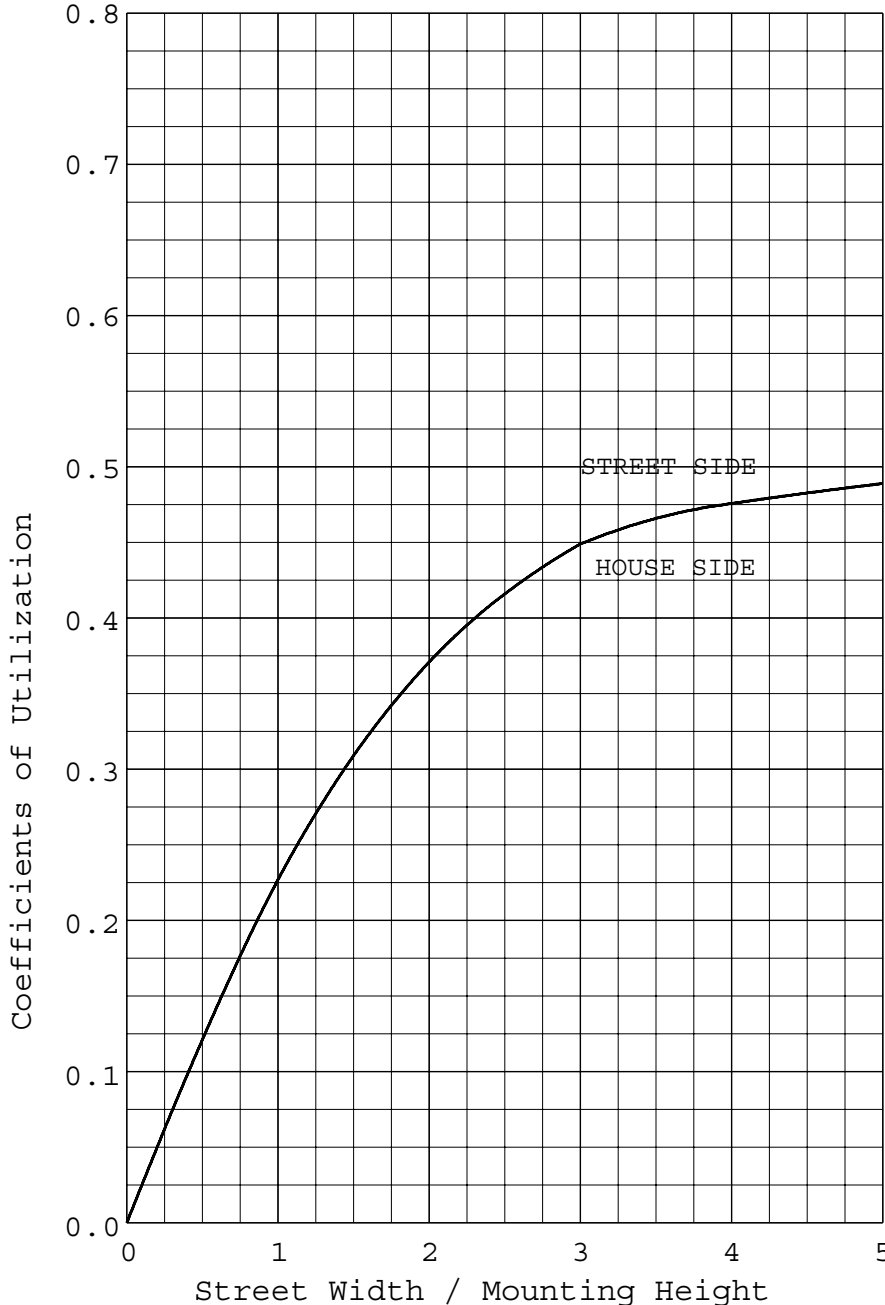
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





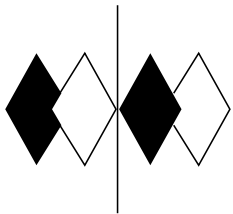
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	6018.	50.0
DOWNWARD HOUSE SIDE	6018.	50.0
DOWNWARD TOTAL	12035.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	12035.	100.0
EFFICACY = 68.0 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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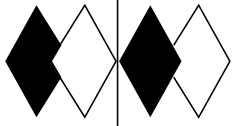
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	6018.	50.0	
FL (0- 30)	418.7	3.5	
FM (30- 60)	2118.4	17.6	
FH (60- 80)	3272.1	27.2	G2
FVH(80- 90)	208.2	1.7	U3 G1
BACK LIGHT	6018.	50.0	
BL (0- 30)	418.7	3.5	B1
BM (30- 60)	2118.4	17.6	B2
BH (60- 80)	3272.1	27.2	B4 G2
BVH(80- 90)	208.2	1.7	U3 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	12035.	100.0	

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

BUG RATING: B4 U3 G2



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CANDELA TABULATION

	LATERAL ANGLE										
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
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	83.	75.	64.	75.	23.	24.	42.	34.	29.	30.	28.
85.0	261.	265.	266.	302.	245.	216.	256.	231.	187.	176.	162.
V	82.5	520.	582.	563.	724.	711.	805.	652.	627.	479.	433.
E	80.0	1039.	1081.	1092.	1350.	1478.	1521.	1405.	1289.	1069.	1049.
R	77.5	1776.	1907.	1925.	2269.	2259.	2349.	2195.	2193.	1905.	1897.
T	75.0	2674.	2760.	2811.	3000.	3096.	3172.	3052.	2893.	2780.	2698.
I	72.5	3359.	3393.	3468.	3644.	3797.	3874.	3738.	3544.	3402.	3322.
C	70.0	3971.	4043.	4046.	4167.	4223.	4155.	4111.	4060.	3936.	3928.
A	67.5	4472.	4478.	4451.	4334.	3949.	3699.	3827.	4076.	4265.	4306.
L	66.0<<	4618.	4604.	4458.	3961.	3545.	3362.	3493.	3838.	4151.	4309.
	65.0	4533.	4414.	4228.	3565.	3282.	3133.	3265.	3512.	3951.	4089.
A	62.5	3470.	3368.	3179.	2931.	2825.	2809.	2855.	2989.	3184.	3402.
N	60.0	2875.	2855.	2787.	2666.	2606.	2618.	2660.	2752.	2877.	2960.
G	57.5	2694.	2684.	2647.	2560.	2505.	2508.	2556.	2652.	2756.	2818.
L	55.0	2465.	2455.	2481.	2464.	2455.	2465.	2502.	2556.	2587.	2577.
E	52.5	2179.	2137.	2229.	2249.	2324.	2361.	2372.	2337.	2339.	2245.
	50.0	1825.	1837.	1955.	2055.	2174.	2233.	2202.	2113.	2018.	1927.
	47.5	1592.	1589.	1644.	1748.	1966.	2022.	2003.	1790.	1686.	1602.
	45.0	1364.	1357.	1462.	1542.	1650.	1711.	1667.	1559.	1475.	1368.
	42.5	1320.	1320.	1328.	1353.	1470.	1512.	1473.	1362.	1310.	1299.
	40.0	1322.	1320.	1321.	1301.	1307.	1303.	1308.	1295.	1299.	1297.
	37.5	1302.	1299.	1299.	1283.	1272.	1266.	1271.	1274.	1281.	1279.
	35.0	1266.	1259.	1265.	1247.	1241.	1233.	1242.	1245.	1250.	1246.
	30.0	1165.	1160.	1164.	1163.	1162.	1160.	1164.	1164.	1163.	1161.
	25.0	1072.	1070.	1076.	1078.	1084.	1081.	1083.	1076.	1073.	1068.
	20.0	988.	987.	988.	988.	993.	991.	992.	985.	983.	978.
	15.0	897.	897.	899.	895.	897.	894.	897.	894.	893.	893.
	10.0	837.	834.	835.	835.	836.	833.	836.	833.	832.	831.
	5.0	837.	837.	837.	838.	837.	839.	836.	838.	835.	837.
	0.0	860.	860.	860.	860.	860.	860.	860.	860.	860.	860.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA