

TerraCast[®]

PRODUCTS

POST TOP FIXTURE TC40T

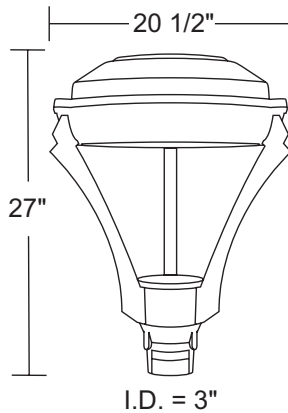
PROJECT _____

TYPE _____

VOLTAGE _____



TerraCast[®]'s commercial product line provides safety and security for all types of applications including parks, pedestrian walkways, and parking areas. Our Post top fixtures fit on any standard 3" diameter commercial pole (sold separately) with 3 set screws and allen wrench (provided).



EPA 0.835ft²
WT 32lbs

IES FILES AVAILABLE



SPECIFICATIONS

- Cast Aluminum Housing
- Stainless Steel Set Screws
- Black, White, or Bronze Finish
- Acrylic Lenses
- Opal Drop or Frost Flat Lens Options
- UL Listed for Wet Locations

LIGHT SOURCE OPTIONS

DEDICATED LED SYSTEM - L

- 120-277V, 50/60Hz
- 150W or 250W Metal Halide Equivalent
- Estimated 50,000 Hrs L₇₀
- Surge Supression
- 3000K, 4000K, or 5000K CCT 80CRI
- Type 5 Distribution
- 0 - 10V Dimming Upon Request
- 5 Year Warranty

GUIDE: TC40TL-L40W-BK

CALL FOR PHOTOMETRIC INFORMATION

ITEM #	LENS	LIGHT SOURCE	COLOR	OPTIONS
TC40T	ACRYLIC L-Opal Drop Lens FF-Frost Flat Lens	LED LIGHT SOURCE		BK-Black BZ-Bronze WH-White D-0-10V Dimming
		DEDICATED LED SYSTEM L40-40W, 4000lm L60-60W, 6000lm	CCT C-4K W-3K B-5K	

* Special order item. Longer lead times may apply. Option not available in Replaceable Corn Cob model. ☆ Lamp Included

Specifications subject to change without notice - FIXTURE SPEC 1/19



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



Outdoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
TerraCast® Products

Catalog Number
TC40T-L40C-BK
Order Number
12707152
Test Number
12707152.01A

Test Date

2019-01-23

Prepared By

Cordaryl Cousar, Technician

Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Black aluminum housing, frosted lens enclosure
Lamp: 24 white LEDs
Mounting: Post
Ballast/Driver: Inventronics EUC-042S105Ds

Luminaire



Luminaire Characteristics

Luminous Diameter: 16.00 in.

Summary of Results

Roadway Classification: Type V, Very Short
Cutoff Classification: Full Cutoff
BUG Rating: B1 U0 G1

Test Conditions

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.3526 A
Power: 41.98 W
Power Factor: 0.992
Frequency: 60 Hz
Current THD: 7.15 %

Tested in 30 planes left side, 30 planes right side, left and right averaged
Vertical test increments are 2.5 degrees
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

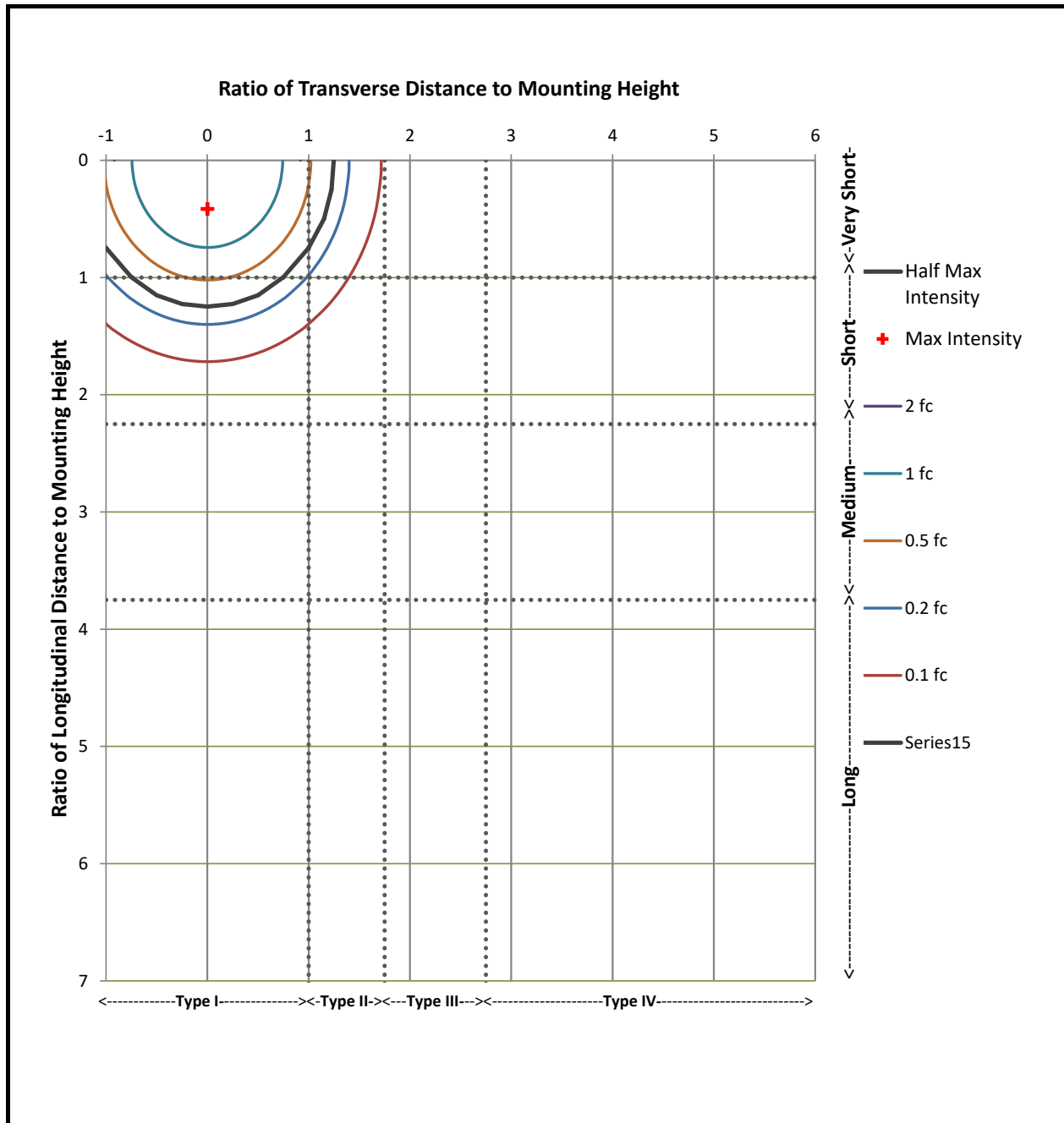
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.3526 A	41.98 W	0.992	60 Hz	7.15 %

Summary of Results

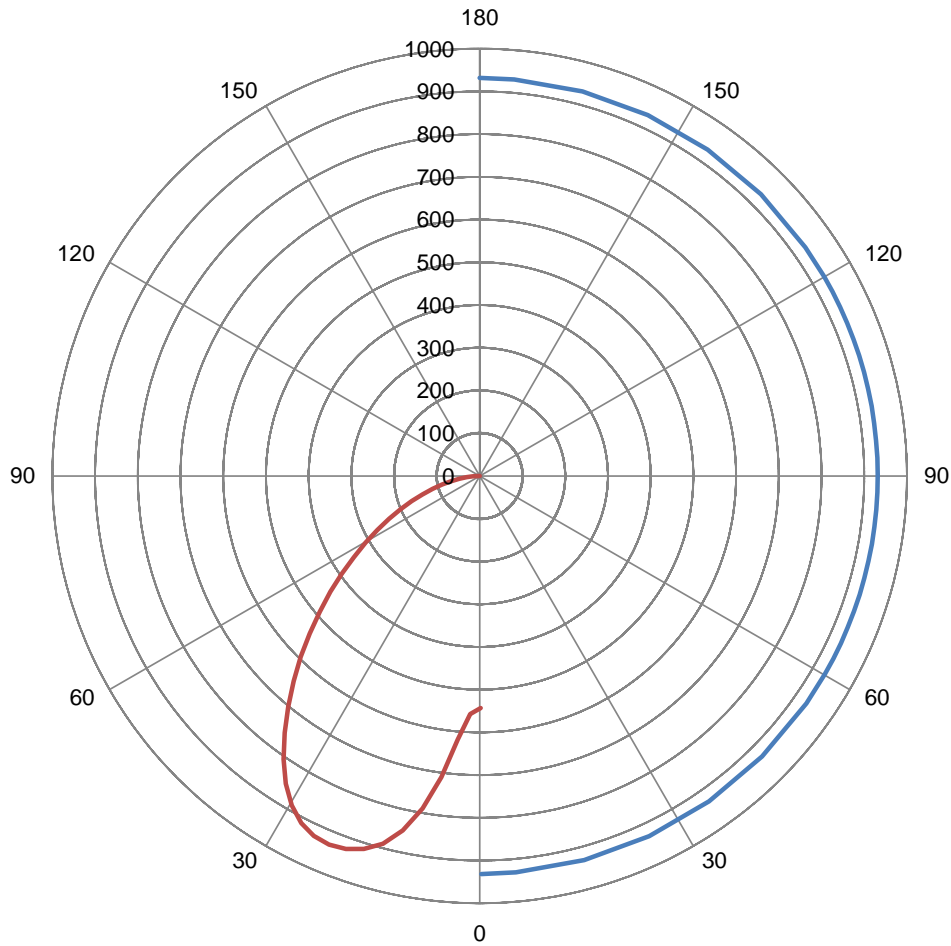
IES Roadway Classification:	Type V, Very Short	Total Lumen Output:	2447 Lumens
Cutoff Classification	Full Cutoff	Luminaire Efficacy:	58.3 lm/w
BUG Rating:	B1 U0 G1	Maximum Candela:	932 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

22.5 ° Vertical

Maximum Intensity (Candlepower):

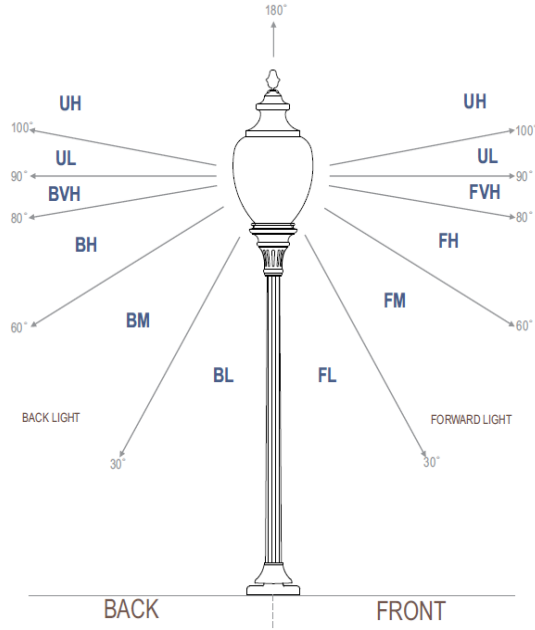
932 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	14.9	0.6%	60-65	131.6	5.4%	120-125	0.0	0.0%
5-10	51.6	2.1%	65-70	101.9	4.2%	125-130	0.0	0.0%
10-15	100.7	4.1%	70-75	73.8	3.0%	130-135	0.0	0.0%
15-20	150.4	6.1%	75-80	48.3	2.0%	135-140	0.0	0.0%
20-25	194.9	8.0%	80-85	26.4	1.1%	140-145	0.0	0.0%
25-30	230.2	9.4%	85-90	8.7	0.4%	145-150	0.0	0.0%
30-35	249.6	10.2%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	251.2	10.3%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	239.5	9.8%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	218.9	8.9%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	192.0	7.8%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	162.2	6.6%	115-120	0.0	0.0%	175-180	0.0	0.0%



IES "BUG" Rating
 (Back Light, Uplight, Glare)
 Per IES TM-15-11



Luminaire Classification System (LCS)

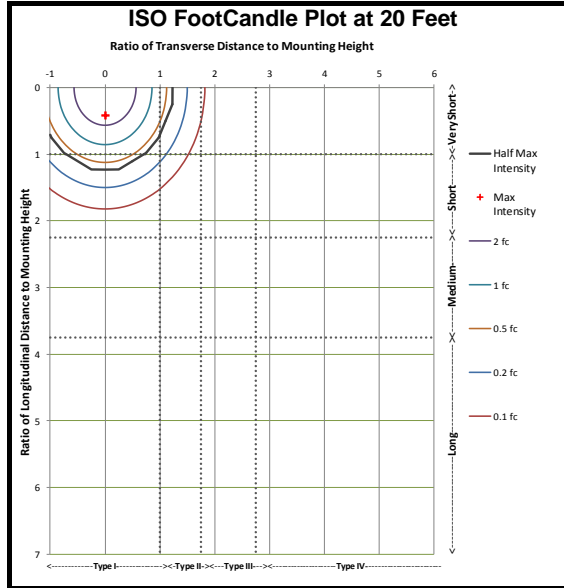
LCS	Zone	Lumens	Luminaire %
FL	(0-30)	371.4	15.2%
FM	(30-60)	656.7	26.8%
FH	(60-80)	177.8	7.3%
FVH	(80-90)	17.6	0.7%
BL	(0-30)	371.4	15.2%
BM	(30-60)	656.7	26.8%
BH	(60-80)	177.8	7.3%
BVH	(80-90)	17.6	0.7%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		2446.8	100.0%
BUG Rating		B1 U0 G1	



Catalog Number
TC40TFF-L60C-BK

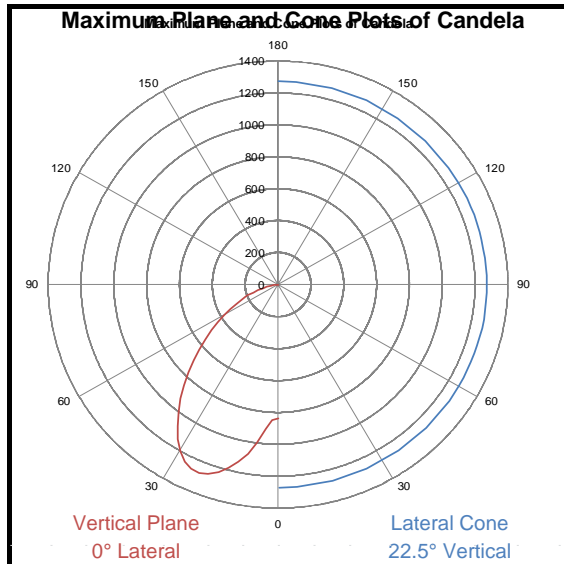
Electrical Test Conditions						
Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.0 VAC	0.5581 A	66.80 W	0.997	60 Hz	5.51 %

Summary of Results	
Total Lumen Output	3245 Lumens
Luminaire Efficacy	48.7 lm/w
Maximum Candela	0 Candela
IES Roadway Classification	Type V, Very Short
Cutoff Classification	Cutoff
BUG Rating	B2 U1 G1
CCT	5308 K
CRI	75.1
Duv	0.0011
TM-30 Rf	73.0
TM-30 Rg	96.0

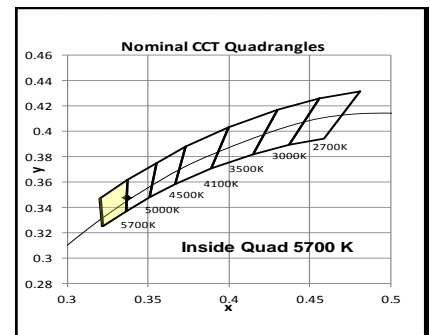
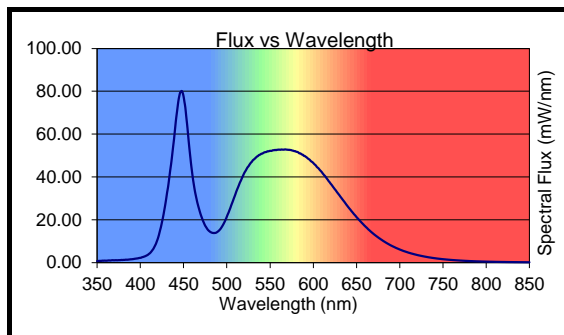


Intensity Through Maximum Plane (Candlepower)		
Angle	Candlepower	Lumens
0	839	
5	903	94
10	1076	
15	1187	337
20	1257	
25	1269	580
30	1204	
35	1077	670
40	928	
45	775	597
50	629	
55	496	445
60	379	
65	280	280
70	197	
75	126	135
80	67	
85	25	32
90	9	
95	7	8
100	5	
105	2	2
110	0	
115	0	0
120	0	
125	0	0
130	0	
135	0	0
140	0	
145	0	0
150	0	
155	0	0
160	0	
165	0	0
170	0	
175	0	0
180	0	

Luminaire Classification System (LCS)			
LCS	Zone	Lumens	%
FL	(0-30)	506	16%
FM	(30-60)	856	27%
FH	(60-80)	208	7%
FVH	(80-90)	16	1%
BL	(0-30)	506	16%
BM	(30-60)	856	27%
BH	(60-80)	208	7%
BVH	(80-90)	16	1%
UL	(90-100)	8	0%
UH	(100-180)	2	0%



Color Rendering Index Details	
Ra (CRI)	75.1
R1	73.8
R2	78.8
R3	81.4
R4	76.4
R5	74.5
R6	71.0
R7	82.2
R8	63.0
R9	-12.5
R10	48.5
R11	74.2
R12	50.7
R13	74
R14	89.3



Chromaticity Coordinates	
Chromaticity (x)	0.3370
Chromaticity (y)	0.3477
Chromaticity (u)	0.2074
Chromaticity (v)	0.3210
Chromaticity (u')	0.2074
Chromaticity (v')	0.4816

Testing was performed in accordance with LM-79-08
The results contained in this summary pertain only to report #1269771

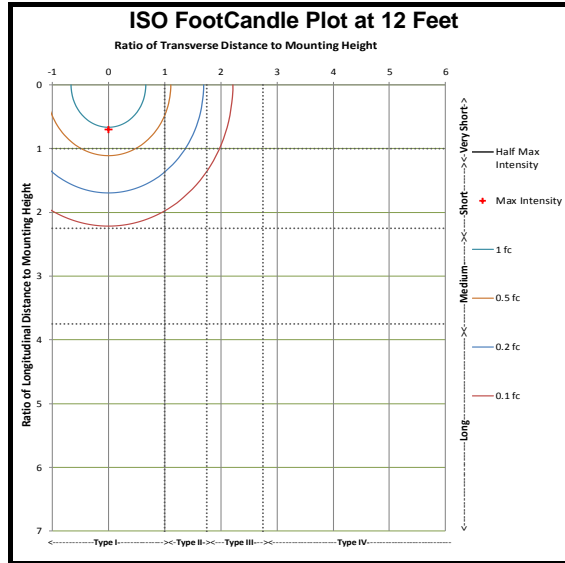


TerraCast® Products
 Catalog Number
TC40TL-L60C



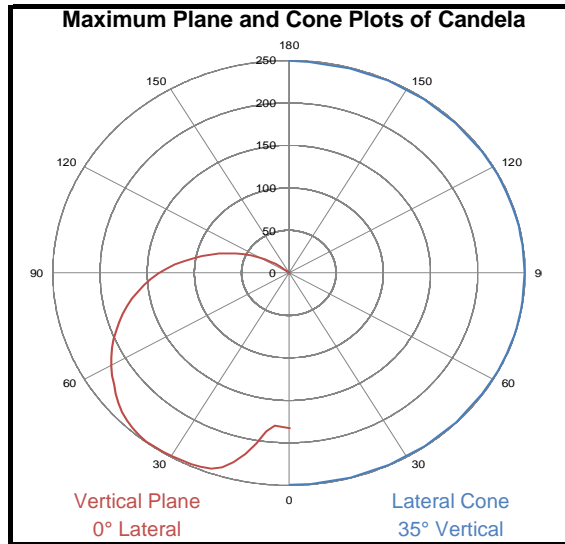
Electrical Test Conditions						
Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.5462 A	65.30 W	0.996	60 Hz	5.71 %

Summary of Results	
Total Lumen Output	1613 Lumens
Luminaire Efficacy	24.7 lm/W
Maximum Candela	249 Candela
IES Roadway Classification	Type V, Very Short
Cutoff Classification	Noncutoff
BUG Rating	B1 U3 G1



Intensity Through Maximum Plane (Candlepower)		
Angle	Candlepower	Lumens
0	183	
5	180	18
10	204	
15	230	65
20	245	
25	248	114
30	249	
35	249	156
40	248	
45	244	188
50	236	
55	227	204
60	218	
65	207	205
70	195	
75	183	193
80	169	
85	154	168
90	138	
95	121	132
100	103	
105	85	91
110	69	
115	53	53
120	37	
125	24	22
130	12	
135	4	4
140	0	
145	0	0
150	0	
155	0	0
160	0	
165	0	0
170	0	
175	0	0
180	0	

Luminaire Classification System (LCS)			
LCS	Zone	Lumens	%
FL	(0-30)	99	6%
FM	(30-60)	274	17%
FH	(60-80)	199	12%
FVH	(80-90)	84	5%
BL	(0-30)	99	6%
BM	(30-60)	274	17%
BH	(60-80)	199	12%
BVH	(80-90)	84	5%
UL	(90-100)	132	8%
UH	(100-180)	169	10%



Testing was performed in accordance with LM-79-08
 The results contained in this summary pertain only to report #12104114.01