CALCULATED CAFE, GHG, AND LABEL VALUES

CAFE Values	City	Highway	Combined
✓ A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe	78.5586	74.4420	76.6512
→ 2. Optional Utility Factor Composite MPGe	141.8842	68.2926	95.5503 ←
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composity MPGe	87.7659	58.1487	71.4008

Based on the all-electric range, is this PHEV a dual fuel vehicle for CAFE?			YES
	City	Highway	Combined
All-Electric Range (miles unadjusted)	45.80	40.50	43.4

GHG Values	City	Highway	Combined
Composite CREE without DF (g/mi)	37.5	116.0	72.8
Composite CREE, with DF (g/mi)	**42.0**	**122.0**	**78.0**

Label Values (5-Cycle Adjusted)			
Charge-Depleting	City	Highway	Combined
Charge-depleting Range (Miles)	32.67	28.70	31
All-Electric Range (M les)	32.09	28.37	30
Total Driving Range (Miles)			440
CD Fuel Economy (MPGe)	79.4117	71.8737	76
CD Electricity Consumption (kW-hr/100mi)	42.3290	46.7800	44.3320
CD Gasoline Consumption (gal/100mi)	0.0	0.0	0.0
Charge-Sustaining	City	Highway	Combined
CS Fuel Economy (MPG)	33.3	32.2	33
CS Fuel Consumption (gal/100mi)	3.0	3.1	3.0
Composite CD/CS	City	Highway	Combined
Annual Fuel Cost ($/year)			$ 1,100
5-Year Fuel Savings Value ($/5 years)		You SAVE	$ 2,500
Composite CO2 (g/mi)	104.6	119.8	111
Composite Fuel Economy (MPG)	51.4221	46.8755	49
MPG Rating (on scale of 1-10)			8
GHG Rating (on scale of 1-10)			10

Label Inputs Based on Model Year and Fuel Type (generally these should not be changed)	
Gasoline cost ($/gallon)	$ 2.95
Electricity cost ($/kW-hour)	$ 0.14
Average vehicle 5-year cost ($)	$ 8,000
Average vehicle MPG	28

Average Recharge Time of Test Vehicles	CD_UDDS	CD_Hwy
Avg of Charge Depleting Tests (Hours)	#N/A	#N/A
CD_UDDS/CD_Hwy Weighting	55/45	50/50
Weighted avg of all recharge times (Hours)	#N/A	#N/A

THE FOLLOWING VALUES ARE USED FOR OTHER EPA PUBLICATIONS OR PROGRAMS

Trends Report Values	City	Highway
Fleet Utility Factor (43/57)	0.7780	0.3580
Unadjusted Fuel Economy (MPG)	87.7659	58.1487
Unadjusted GHG (g/mi)	37.5000	116.0000
Adjusted Fuel Economy (MPG)	57.8989	39.9779
Adjusted GHG (g/mi)	70.8	179.5

HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda	0.7230	0.6850	
Composite CD/CS Fuel Economy (MPGe)	80.4	72.0	76.4

Fueleconomy.gov Values	
Charge-sustaining Efficiency	MPG
City Rounded Adjusted FE (Guide) - Conventional Fuel	33
Hwy Rounded Adjusted FE (Guide) - Conventional Fuel	32
Combined Rounded Adjusted FE (Guide) - Conventional Fuel	33
City Unrounded Unadjusted FE - Conventional Fuel	45.8
Hwy Unrounded Unadjusted FE - Conventional Fuel	43.7
Combined Unrounded Unadjusted FE - Conventional Fuel	44.8306
City Unrounded Adjusted FE - Conventional Fuel	33.3209
Hwy Unrounded Adjusted FE - Conventional Fuel	32.1630
Combined Unrounded Adjusted FE - Conventional Fuel	32.7897
Charge-sustaining CO2	g/mi
City CO2 Rounded Adjusted	269
Hwy CO2 Rounded Adjusted	278
Combined CO2 Rounded Adjusted	273
*City CO2 Unrounded Unadjusted	196.0
*Hwy CO2 Unrounded Unadjusted	205.0
*Combined CO2 Unrounded Unadjusted	200.0
*City CO2 Unrounded Adjusted	268.8
*Hwy CO2 Unrounded Adjusted	278.4
*Combined CO2 Unrounded Adjusted	273.1
Charge-sustaining Driving Range (Adjusted)	
*Range1 - Model Type Driving Range - Conventional Fuel - City	413
*Range1 - Model Type Driving Range - Conventional Fuel - Hwy	399
Range1 - Model Type Driving Range - Conventional Fuel - Comb	407
Charge-depleting Efficiency (kW-hr/100mi)	MPGe
City2 Rounded Adjusted FE (Guide) - Alternative Fuel	42 79
Hwy2 Rounded Adjusted Fuel FE (Guide) - Alternative Fuel	47 72
Comb2 Rounded Adjusted Fuel FE (Guide) - Alternative Fuel	44 76
City2 Unrounded Unadjusted FE - Alternative Fuel	29.8 113.3
Hwy2 Unrounded Unadjusted FE - Alternative Fuel	32.8 102.7
Comb2 Unrounded Unadjusted FE - Alternative Fuel	31.1500 108.2712
City2 Unrounded Adjusted FE - Alternative Fuel	42.3290 79.4117
Hwy2 Unrounded Adjusted FE - Alternative Fuel	46.7800 71.8737
Cmb2 Unrounded Adjusted FE - Alternative Fuel	44.3320 75.8328
Charge-depleting CO2	g/mi
City CO2 Rounded Adjusted	0
Hwy CO2 Rounded Adjusted	0
Comb CO2 Rounded Adjusted	0
*City CO2 Unrounded Unadjusted	0
*Hwy CO2 Unrounded Unadjusted	0
*Comb CO2 Unrounded Unadjusted	0
*City CO2 Unrounded Adjusted	0
*Hwy CO2 Unrounded Adjusted	0
*Combined CO2 Unrounded Adjusted	0
Charge-depleting Driving Range (Adjusted)	miles
City Range on Electricity (mi es)	32.67
Hwy Range on Electricity (miles)	28.70
Combined Range on Electricity as shown on FE Label (miles)	31
All-Electric Driving Range (Adjusted)	miles
City All-Electric Range	32.09
Hwy All-Electric Range	28.37
Combined All-Electric Range as shown on FE Label (m les)	30.0
Charge-depleting Utility Factors	UF
City Utility Factor (MDIUF)	0.613
Hwy Utility Factor (MDIUF)	0.572
Combined Utility Factor (MDIUF)	0.595
Composite Efficiency (Adjusted)	MPGe
City PHEV Composite MPGe	51
Hwy PHEV Composite MPGe	47
Combined PHEV Composite MPGe	49
Composite CO2 (Adjusted)	g/mi
City CO2-PHEV Composite Rounded Adjusted CO2	105
Hwy CO2-PHEV Composite Rounded Adjusted CO2	120
CO2-PHEV Composite Rounded Adjusted CO2	111
PHEV Total Driving Range (Adjusted)	miles
PHEV Total Driving Range (Adjusted)	440

ENTER BASIC VEHICLE INFORMATION HERE

Vehicle Information	
Model year:	2023
Vehicle category:	LT
Manufacturer name:	Hyundai Motors
Model name:	Santa Fe PHEV
Iquid fuel type:	Regular Unleaded
Additional descriptors as needed:	
Fuel tank size (U.S. gallons):	✓ 12.4
Deterioration Factors for GHG (CREE) Values (All 3 Required)	
Select DF type:	Additive
City DF:	5.000000
Highway DF:	6.000000
Inputs & Conversions (most of these should not be changed)	
DOE Petroleum Equivalence Factor (PEF):	✓ 82049
Watt-hours of energy per gallon of gasoline:	✓ 33705
Grams of CO2 per gallon of gasoline/diesel:	✓ 8887
Fuel lower heating value (kJ/kg):	✓ 43020
Fuel density (kg/gal):	✓ 2.805

ERROR AND VALIDATION MESSAGES

This calculator automatically selects the appropriate CAFE value for 2016 and later model year PHEVs. If the PHEV is a dual fuel vehicle for purposes of CAFE the better of a 50/50 weighting or a utility factor calculation will be selected. The statute requires manufacturers to request use of the utility factor method for 2016 and later PHEVs. Submitting this spreadsheet to EPA filled out completely and correctly will constitute such a request. Prior to 2016 the 50/50 weighting option must be used.

Test Set #1

Test Set name (e.g., Eco, Power):	Eco
Production Volume (projected or actual):	EX. 4

ENTER CHARGE-SUSTAINING TEST RESULTS HERE	City	Highway
Fuel Economy, Unadjusted (MPG):	45.8000	43.7000
Fuel Economy, 5-Cycle Adjusted (MPG):	33.3209	32.1630
CREE (g/mi):	196.0	205.0
CO2, Unadjusted (g/mi):	196.0	205.0
CO2, 5-Cycle Adjusted (g/mi):	268.8	278.4

ENTER CHARGE-DEPLETING AND CHARGE-SUSTAINING TEST NUMBERS HERE	CD_UDDS	CD_Hwy
Charge-Depleting Test Number:	NHYX10067972	NHYX10067973
	CS_FTP	CS_Hwy
Charge-Sustaining FTP/Hwy (Required):	NHYX10067967	NHYX10067968
Charge-Sustaining FTP/Hwy (Optional):		
Charge-Sustaining FTP/Hwy (Optional):		

ENTER ADDITIONAL CHARGE-SUSTAINING 5-CYCLE TEST NUMBERS HERE	Test Procedure	Test Number
Charge-Sustaining Test (Optional):	US06	NHYX10067971
Charge-Sustaining Test (Optional):	SC03	NHYX10067970
Charge-Sustaining Test (Optional):	ColdCO	NHYX10067969
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Mi es [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
1	7.475	5.339	390.08	0.000	0.00	0	0.0	0	0.0	0
2	7.473	10.555	377.90	0.000	0.00	0	0.0	0	0.0	0
3	7.470	15.909	365.53	0.000	0.00	0	0.0	0	0.0	0
4	7.474	21.512	354.84	0.000	0.00	0	0.0	0	0.0	0
5	7.477	27.097	347.75	0.000	0.00	0	0.0	0	0.0	0
6	7.475	32.802	340.99	0.000	0.00	0	0.0	0	0.0	0
7	7.471	34.144	335.64	0.019	0.09	155	57.8	155	57.8	155
8	7.469	34.065	334.43	0.004	0.11	198	45.3	198	45.3	198
9										
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CWF [3]:	0.870	Recharge energy (AC kilowatt-hours) [4]:	13.8295
SG [3]:	0.744	All-Electric Range (Miles) [3]:	45.845
NHV [0]:	18364	Transition Cycle [0]:	7
		Recharge time (optional)(Hours) [2]:	

Fuel? Yes
Footer? Yes

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
3	10.250	7.795	387.34	0.000	0.00	0	0.0	0	0.0	0
2	10.250	15.889	368.75	0.000	0.00	0	0.0	0	0.0	0
3	10.250	24.394	353.41	0.000	0.00	0	0.0	0	0.0	0
4	10.250	33.020	342.34	0.023	0.05	7	1254.9	7	1254.9	7
5	10.249	33.090	335.64	0.007	0.06	217	41.3	217	41.3	217
6										
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CWF [3]:	0.870	Recharge energy (AC kilowatt-hours) [4]:	13.4260
SG [3]:	0.744	All-Electric Range (Miles) [3]:	40.532
NHV [0]:	18364	Transition Cycle [0]:	4
		Recharge time (optional)(Hours) [2]:	

Fuel? Yes
Footer? Yes

Results from Test Set #1: Eco

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe [4]	78.5586	74.4420	76.6512
2. Optional Ut lity Factor Composite MPGe [4]	141.8842	68.2926	95.5503
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	87.7659	58.1487	71.4008

GHG Values	City	Highway	Combined	
Composite CREE no DF (g/mi) [1]	37.5	116.0	72.8	NEW
Composite CREE w/DF (g/mi) [1]	42.0	122.0	78.0	
Label Values (5-Cycle Adjusted)				
Charge-Depleting			Combined	NEW
CD range adjusted (miles) [0]			31	
CD All-Electric Range adjusted (mi) [0]			30	NEW
Total Driving Range (Miles) [0]			440	NEW
CD Fuel Economy (MPGe) [0]			76	
CD Electricity Consumption (kW-hr/100mi) [0]			44	
CD Gasoline Consumption (gal/100mi) [0]			0	
Charge-Sustaining			Combined	NEW
CS Fuel Economy (MPG) [0]	33.3209	32.1630	33	NEW
CS Fuel Consumption (gal/100mi) [1]	3.0	3.1	3	
Composite CD/CS			Combined	
Annual Fuel Cost ($/year) [0]			1,100	NEW
5-Year Fuel Savings Value ($/5 years) [0]			2,500	NEW
Composite CO2 (g/mi) [0]			111	
Composite Fuel Economy (MPG) [0]			49	NEW

HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda [3]	0.723	0.685	
Composite CD/CS Fuel Economy (MPGe) [4]	80.4446	72.0489	76.4365

Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57) [3]	0.778	0.358	0.5890
Unadjusted Fuel Economy (MPG) [4]	87.7659	58.1487	71.4008
Unadjusted GHG (g/mi) [1]	37.5	116.0	72.8
Adjusted Fuel Economy (MPG) [4]	57.8989	39.9779	48.1799
Adjusted GHG (g/m i) [1]	70.8	179.5	119.7

Test Set #2

Test Set name (e.g., Eco, Power):	
Production Volume (projected or actual):	

ENTER CHARGE-SUSTAINING TEST RESULTS HERE	City	Highway
Fuel Economy, Unadjusted (MPG):		
Fuel Economy, 5-Cycle Adjusted (MPG):		
CREE (g/mi):		
CO2, Unadjusted (g/mi):		
CO2, 5-Cycle Adjusted (g/mi):		

ENTER CHARGE-DEPLETING AND CHARGE-SUSTAINING TEST NUMBERS HERE	CD_UDDS	CD_Hwy
Charge-Depleting Test Number:		
	CS_FTP	CS_Hwy
Charge-Sustaining FTP/Hwy (Required):		
Charge-Sustaining FTP/Hwy (Optional):		
Charge-Sustaining FTP/Hwy (Optional):		

ENTER ADDITIONAL CHARGE-SUSTAINING 5-CYCLE TEST NUMBERS HERE	Test Procedure	Test Number
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Mi es [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
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CWF [3]:		Recharge energy (AC kilowatt-hours) [4]:	
SG [3]:		All-Electric Range (Miles) [3]:	
NHV [0]:		Transition Cycle [0]:	
		Recharge time (optional)(Hours) [2]:	

Fuel? No
Footer? No

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
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CWF [3]:		Recharge energy (AC kilowatt-hours) [4]:	
SG [3]:		All-Electric Range (Miles) [3]:	
NHV [0]:		Transition Cycle [0]:	
		Recharge time (optional)(Hours) [2]:	

Fuel? No
Footer? No

Results from Test Set #2: 0

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe [4]	-	-	-
2. Optional Utility Factor Composite MPGe [4]	-	-	-
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	-	-	-

GHG Values	City	Highway	Combined	
Composite CREE no DF (g/mi) [1]	0.0	0.0	0.0	NEW
Composite CREE w/DF (g/mi) [1]	0.0	0.0	0.0	
Label Values (5-Cycle Adjusted)				
Charge-Depleting			Combined	NEW
CD range adjusted (miles) [0]			0	
CD All-Electric Range adjusted (mi) [0]			0	NEW
Total Driving Range (Miles) [0]			0	NEW
CD Fuel Economy (MPGe) [0]			0	
CD Electricity Consumption (kW-hr/100mi) [0]			0	
CD Gasoline Consumption (gal/100mi) [0]			0	
Charge-Sustaining			Combined	
CS Fuel Economy (MPG) [0]	0.0000	0.0000	0	NEW
CS Fuel Consumption (gal/100mi) [1]	0.0	0.0	0	
Composite CD/CS			Combined	
Annual Fuel Cost ($/year) [0]			-	NEW
5-Year Fuel Savings Value ($/5 years) [0]			8,000	NEW
Composite CO2 (g/mi) [0]			0	
Composite Fuel Economy (MPG) [0]			0	NEW

HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda [3]	0.000	0.000	
Composite CD/CS Fuel Economy (MPGe) [4]	0.0000	0.0000	0.0000

Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57) [3]	0.000	0.000	0.0000
Unadjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Unadjusted GHG (g/mi) [1]	0.0	0.0	0.0
Adjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Adjusted GHG (g/mi) [1]	0.0	0.0	0.0

Test Set #3

Test Set name (e.g., Eco, Power):	
Production Volume (projected or actual):	

ENTER CHARGE-SUSTAINING TEST RESULTS HERE	City	Highway
Fuel Economy, Unadjusted (MPG):		
Fuel Economy, 5-Cycle Adjusted (MPG):		
CREE (g/mi):		
CO2, Unadjusted (g/mi):		
CO2, 5-Cycle Adjusted (g/mi):		

ENTER CHARGE-DEPLETING AND CHARGE-SUSTAINING TEST NUMBERS HERE	CD_UDDS	CD_Hwy
Charge-Depleting Test Number:		
	CS_FTP	CS_Hwy
Charge-Sustaining FTP/Hwy (Required):		
Charge-Sustaining FTP/Hwy (Optional):		
Charge-Sustaining FTP/Hwy (Optional):		

ENTER ADDITIONAL CHARGE-SUSTAINING 5-CYCLE TEST NUMBERS HERE	Test Procedure	Test Number
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Mi es [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
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CWF [3]:		Recharge energy (AC kilowatt-hours) [4]:	
SG [3]:		All-Electric Range (Miles) [3]:	
NHV [0]:		Transition Cycle [0]:	
		Recharge time (optional)(Hours) [2]:	

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
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CWF [3]:		Recharge energy (AC kilowatt-hours) [4]:	
SG [3]:		All-Electric Range (Miles) [3]:	
NHV [0]:		Transition Cycle [0]:	
		Recharge time (optional)(Hours) [2]:	

Results from Test Set #3: 0

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe [4]	-	-	-
2. Optional Ut lity Factor Composite MPGe [4]	-	-	-
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	-	-	-

GHG Values	City	Highway	Combined	
Composite CREE no DF (g/mi) [1]	0.0	0.0	0.0	NEW
Composite CREE w/DF (g/mi) [1]	0.0	0.0	0.0	
Label Values (5-Cycle Adjusted)				
Charge-Depleting			Combined	NEW
CD range adjusted (miles) [0]			0	
CD All-Electric Range adjusted (mi) [0]			0	NEW
Total Driving Range (Miles) [0]			0	NEW
CD Fuel Economy (MPGe) [0]			0	
CD Electricity Consumption (kW-hr/100mi) [0]			0	
CD Gasoline Consumption (gal/100mi) [0]			0	
Charge-Sustaining			Combined	NEW
CS Fuel Economy (MPG) [0]	0.0000	0.0000	0	NEW
CS Fuel Consumption (gal/100mi) [1]	0.0	0.0	0	
Composite CD/CS			Combined	
Annual Fuel Cost ($/year) [0]			-	NEW
5-Year Fuel Savings Value ($/5 years) [0]			8,000	NEW
Composite CO2 (g/mi) [0]			0	
Composite Fuel Economy (MPG) [0]			0	NEW

HOV Lane Values	City	Highway	Combined

RMEDIATE CALCULATIONS AND INPUTS	Test Set #1:	Eco
ge-Depleting (CD) Test Results		
DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
CD d v ng d stance (Rcda), unadjusted (m les) [3]	46.600	41.000
CD d v ng d stance (Rcda), adjusted (m les) [3]	32.670	28.700
CD all-elect c d v ng d stance, unadjusted (m les) [3]	45.846	40.532
CD All-Elect c Range, ad usted (m) [3]	32.092	28.372
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
CD AC elect c ty consumpt on (Rcdc), unadjusted (Watt-hou s) [1]	13858.7	13399.7
CD AC elect c ty consumpt on ate (Rcda), adjusted (kW-h /100m) [3]	42.329	46.780
CD test total DC ene gy consumed, unad usted (Watt-hou s) [1]	12310.3	11986.3
CD Rcda total fuel consumpt on (Rcda), unadjusted (gal equ v) [4]	0.4114	0.3993
CD ut l t zed total fuel consumpt on ate (S5/45 FUF, Rcdc), unad usted (gal-equ v/m le) [6]	0.007966	0.004314
CD ut l t zed total fuel consumpt on ate (43/57 FUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.010609	0.005053
CD ut l t zed total fuel consumpt on ate (MDIUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.008973	0.008057
CD gasoline consumption (Rcda) unadjusted (ga) [ ]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	79.4117	71.8737
CD gasol ne consumpt on ate (Rcda), ad usted (gal/100m) [4]	0.0000	0.0000
CD fuel economy (Rcda) unadjusted (MPGe) [4]	113.2717	102.6767
CD AC electricity consumption rate (Rcda) unadjusted (kW-hr/100mi) [3]	29.756	32.826
GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
CD CO2 em ss ons ate (Rcda), unadjusted (g/m) [1]	0.0	0.0
CD CO2 emissions rate (Rcda) adjusted (g/mi) [1]	0.0	0.0
CD ut l t zed CO2 (MDIUF, Rcdc), ad usted (g/m) [1]	10.8	0.9
CD ut l t zed CREE (S5/45 FUF, Rcdc), unadjusted (g/m) [1]	6.7	0.6
CD ut l t zed CREE (43/57 FUF, Rcdc), adjusted (g/m) [1]	11.1	0.8
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD S5/45 Fleet Ut l ty Facto (FUF) fo Rcdc [3]	0.843	0.437
MDIUF based on adjusted Rcda [3]	0.613	0.572
MDIUF based on adjusted Rcdc [3]	0.651	0.573
Fraction of transition cycle that is charge-depleting operation (Zn) [3]	0.235	1.000
Number of last cycle number with charge-depleting operation (transition cycle) [0]	7	4
mediate Results Requiring Charge-Sustaining (CS) Test Results or Other Inputs		
DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
CD Equivalent All-Electric Range (EAER) Unadjusted (mi) [3]	46.600	41.000
Charge-sustaining driving range adjusted (mi) [3]	413.179	398.821
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD S5/45 Fleet Utility Factor (FUF) for EAER [3]	0.812	0.436
FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	**CITY**	**HIGHWAY**
CD cost per mile - electricity ($/mi) [3]	$ 0.059	$ 0.065
CD cost per mile - gasoline ($/m) [ ]	$ -	$ -
CD total cost per mile ($/mi) [3]	$ 0.059	$ 0.065
CS cost per mile ($/mi) [3]	$ 0.089	$ 0.092
Composite CD/CS cost ($/mi) [3]	$ 0.071	$ 0.077
COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	**CITY**	**HIGHWAY**
Composite CD/CS CO2 adjusted (g/mi) [1]	104.6	119.8
Composite CD/CS Fuel Economy adjusted (MPG) [4]	51.4221	46.8755

RMEDIATE CALCULATIONS AND INPUTS	Test Set #2:	0
ge-Depleting (CD) Test Results		
DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
CD d v ng d stance (Rcda), unadjusted (m les) [3]	0.000	0.000
CD d v ng d stance (Rcda), adjusted (m les) [3]	0.000	0.000
CD all-elect c d v ng d stance, unadjusted (m les) [3]	0.000	0.000
CD All-Elect c Range, ad usted (m) [3]	0.000	0.000
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
CD AC elect c ty consumpt on (Rcdc), unadjusted (Watt-hou s) [1]	0.0	0.0
CD AC elect c ty consumpt on ate (Rcda), adjusted (kW-h /100m) [3]	0.000	0.000
CD test total DC ene gy consumed, unad usted (Watt-hou s) [1]	0.0	0.0
CD Rcda total fuel consumpt on (Rcda), unadjusted (gal equ v) [4]	0.0000	0.0000
CD ut l t zed total fuel consumpt on ate (S5/45 FUF, Rcdc), unad usted (gal-equ v/m le) [6]	0.000000	0.000000
CD ut l t zed total fuel consumpt on ate (43/57 FUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.000000	0.000000
CD ut l t zed total fuel consumpt on ate (MDIUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.000000	0.000000
CD gasoline consumption (Rcda) adjusted (ga) [ ]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	0.0000	0.0000
CD gasol ne consumpt on ate (Rcda), ad usted (gal/100m) [4]	0.0000	0.0000
CD fuel economy (Rcda) unadjusted (MPGe) [4]	0	0
CD AC electricity consumption rate (Rcda) unadjusted (kW-hr/100mi) [3]	0	0
GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
CD CO2 em ss ons ate (Rcda), unadjusted (g/m) [1]	0.0	0.0
CD CO2 emissions rate (Rcda) adjusted (g/mi) [1]	0.0	0.0
CD ut l t zed CO2 (MDIUF, Rcdc), ad usted (g/m) [1]	0.0	0.0
CD ut l t zed CREE (S5/45 FUF, Rcdc), unadjusted (g/m) [1]	0.0	0.0
CD ut l t zed CREE (43/57 FUF, Rcdc), adjusted (g/m) [1]	0.0	0.0
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD S5/45 Fleet Ut l ty Facto (FUF) fo Rcdc [3]	0.000	0.000
MDIUF based on adjusted Rcda [3]	0.000	0.000
MDIUF based on adjusted Rcdc [3]	0.000	0.000
Fraction of transition cycle that is charge-depleting operation (Zn) [3]	#VALUE!	#VALUE!
Number of last cycle number with charge-depleting operation (transition cycle) [0]	EOT ERROR	EOT ERROR
mediate Results Requiring Charge-Sustaining (CS) Test Results or Other Inputs		
DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
CD Equivalent All-Electric Range (EAER) Unadjusted (mi) [3]	#VALUE!	#VALUE!
Charge-sustaining driving range adjusted (mi) [3]	0.000	0.000
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD S5/45 Fleet Utility Factor (FUF) for EAER [3]	#VALUE!	#VALUE!
FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	**CITY**	**HIGHWAY**
CD cost per mile - electricity ($/mi) [3]	$ -	$ -
CD cost per mile - gasoline ($/m) [ ]	#VALUE!	#VALUE!
CD total cost per mile ($/mi) [3]	#VALUE!	#VALUE!
CS cost per mile ($/mi) [3]	#VALUE!	#VALUE!
Composite CD/CS cost ($/mi) [3]	#VALUE!	#VALUE!
COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	**CITY**	**HIGHWAY**
Composite CD/CS CO2 adjusted (g/mi) [1]	0.0	0.0
Composite CD/CS Fuel Economy adjusted (MPG) [4]	0	0

RMEDIATE CALCULATIONS AND INPUTS	Test Set #3:	0
ge-Depleting (CD) Test Results		
DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
CD d v ng d stance (Rcda), unadjusted (m les) [3]	0.000	0.000
CD d v ng d stance (Rcda), adjusted (m les) [3]	0.000	0.000
CD all-elect c d v ng d stance, unadjusted (m les) [3]	0.000	0.000
CD All-Elect c Range, ad usted (m) [3]	0.000	0.000
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
CD AC elect c ty consumpt on (Rcdc), unadjusted (Watt-hou s) [1]	0.0	0.0
CD AC elect c ty consumpt on ate (Rcda), adjusted (kW-h /100m) [3]	0.000	0.000
CD test total DC ene gy consumed, unad usted (Watt-hou s) [1]	0.0	0.0
CD Rcda total fuel consumpt on (Rcda), unadjusted (gal equ v) [4]	0.0000	0.0000
CD ut l t zed total fuel consumpt on ate (S5/45 FUF, Rcdc), unad usted (gal-equ v/m le) [6]	0.000000	0.000000
CD ut l t zed total fuel consumpt on ate (43/57 FUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.000000	0.000000
CD ut l t zed total fuel consumpt on ate (MDIUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.000000	0.000000
CD gasoline consumption (Rcda) adjusted (ga) [ ]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	0.0000	0.0000
CD gasol ne consumpt on ate (Rcda), ad usted (gal/100m) [4]	0.0000	0.0000
CD fuel economy (Rcda) unadjusted (MPGe) [4]	0	0
CD AC electricity consumption rate (Rcda) unadjusted (kW-hr/100mi) [3]	0	0
GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
CD CO2 em ss ons ate (Rcda), unadjusted (g/m) [1]	0.0	0.0
CD CO2 emissions rate (Rcda) adjusted (g/mi) [1]	0.0	0.0
CD ut l t zed CO2 (MDIUF, Rcdc), ad usted (g/m) [1]	0.0	0.0
CD ut l t zed CREE (S5/45 FUF, Rcdc), unadjusted (g/m) [1]	0.0	0.0
CD ut l t zed CREE (43/57 FUF, Rcdc), adjusted (g/m) [1]	0.0	0.0
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**

DETAILED CALCULATIONS | UDDS | Eco

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electric ty Consumed [1]	Theoret cal Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	S5/45 C ty Fleet Utility Factor [3]	S5/45 City FUF x CREE	S5/45 City FUF x Total Consumption	Total Fuel Consumption (gas electric)	S-Cycle Ad ustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulat ve Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Util ty Factor [3]	43/57 C ty FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
1	0.0000	0	5.339	2082.6	2339.5	7.45	0.00928576	0.0093	0.243	0.0000	0.0023	0.0694	0.7000	5.2325	5.215	0.155	0.0000	0.00205613	0.198	0.00262654	0.0000	CD	1.000	CD	1.000
2	0.0000	0	5.216	1971.1	2214.3	14.90	0.00879118	0.0088	0.183	0.0000	0.0016	0.0657	0.7000	5.2311	10.430	0.126	0.0000	0.00158241	0.159	0.00199685	0.0000	CD	1.000	CD	0.486
3	0.0000	0	5.354	1957.0	2198.4	22.35	0.00873156	0.0087	0.137	0.0000	0.0012	0.0652	0.7000	5.2290	15.645	0.103	0.0000	0.00128479	0.126	0.00157168	0.0000	CD	1.000	CD	0.326
4	0.0000	0	5.603	1988.2	2233.5	29.80	0.00886622	0.0089	0.103	0.0000	0.0009	0.0663	0.7000	5.2318	20.860	0.086	0.0000	0.00108928	0.100	0.00126660	0.0000	CD	1.000	CD	0.249
5	0.0000	0	5.585	1942.1	2181.7	37.25	0.00865712	0.0087	0.077	0.0000	0.0007	0.0647	0.7000	5.2339	26.075	0.071	0.0000	0.00087808	0.080	0.00098938	0.0000	CD	1.000	CD	0.195
6	0.0000	0	5.705	1945.3	2185.3	44.70	0.00867372	0.0087	0.057	0.0000	0.0005	0.0648	0.7000	5.2325	31.290	0.059	0.0000	0.00073107	0.063	0.00078064	0.0000	CD	1.000	CD	0.164
7	0.1293	1158	1.342	450.4	506.0	52.15	0.00200945	0.0193	0.043	6.6650	0.0008	0.1443	0.7289	5.4455	36.720	0.051	10.8453	0.00135115	0.052	0.00137764	11.0579	CD	0.104	CD	0.037
8	0.1649	1479	-0.079	-26.4	-29.7	59.60	-0.00011798	0.0220	0.032	6.3360	0.0007	0.1640	0.7427	5.5473	42.253	0.043	11.4634	0.00127123	0.042	0.00124166	11.1968	CS based on 1	-0.005	CS based on 2	-0.002
9																							1.000		1.000
10																							1.000		1.000
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35																							1.000		1.000

DETAILED CALCULATIONS | HFET | Eco

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoret cal Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	S5/45 Highway Fleet Utility Factor [3]	S5/45 Highway FUF x CREE	S5/45 Highway FUF x Total Consumption
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv
1	0.0000	0	7.795	3019.3	3382.0	10.3	0.00978938	0.0098	0.123	0.0000	0.0012
2	0.0000	0	8.094	2984.7	3343.2	20.6	0.00967708	0.0097	0.117	0.0000	0.0011
3	0.0000	0	8.505	3005.8	3366.8	30.9	0.00974539	0.0097	0.105	0.0000	0.0010
4	0.0082	72	8.626	2953.0	3307.7	41.2	0.00957432	0.0104	0.092	0.6440	0.0010
5	0.2482	2224	0.07	23.5	26.3	51.5	0.00007613	0.0243	0.079	17.1430	0.0019
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DETAILED CALCULATIONS | UDDS | 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoret cal Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	S5/45 C ty Fleet Utility Factor [3]	S5/45 City FUF x CREE	S5/45 City FUF x Total Consumption	Total Fuel Consumption (gas electric)	S-Cycle Ad ustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulat ve Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Util ty Factor [3]	FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
1																							1.000		1.000
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DETAILED CALCULATIONS | HFET | 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoret cal Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	S5/45 Highway Fleet Utility Factor [3]	S5/45 Highway FUF x CREE	S5/45 Highway FUF x Total Consumption
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv
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DETAILED CALCULATIONS | UDDS | 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electric ty Consumed [1]	Theoret cal Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	S5/45 C ty Fleet Utility Factor [3]	S5/45 City FUF x CREE	S5/45 City FUF x Total Consumption	Total Fuel Consumption (gas electric)	S-Cycle Ad ustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulat ve Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Util ty Factor [3]	FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
1																							1.000		1.000
2																							1.000		1.000
3																							1.000		1.000
4																							1.000		1.000
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6																							1.000		1.000
7																							1.000		1.000
8																							1.000		1.000
9																							1.000		1.000
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19																							1.000		1.000

DETAILED CALCULATIONS | HFET | 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoret cal Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	S5/45 Highway Fleet Utility Factor [3]	S5/45 Highway FUF x CREE	S5/45 Highway FUF x Total Consumption
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv
1											
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Total Fuel Consumption (gas electr c)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 H ghway Fleet Utility Factor [3]	43/57 Highway FUF x Adjusted Total Fuel Consumption Rate	43/57 H ghway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
gal-equiv	*%*	*miles*	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*	*CD or CS*		*CD or CS*	
0.1003	0.7000	7.175	7.21	0.206	0.0000	0.00288088	0.0970	0.00135653	0.0000	CD	1.000	CD	1.000
0.0992	0.7000	7.175	14.42	0.156	0.0000	0.00215661	0.0940	0.00129949	0.0000	CD	1.000	CD	0.497
0.0999	0.7000	7.175	21.63	0.119	0.0000	0.00165672	0.0870	0.00121121	0.0000	CD	1.000	CD	0.334
0.1063	0.7000	7.175	28.84	0.092	0.9200	0.00136307	0.0800	0.00118528	0.8000	CD	10.786	CD	0.247
0.2489	0.7013	7.188	36.06	0.072	22.2779	0.00249360	0.0720	0.00249360	22.2779	CS based on 1	0.003	CS based on 2	0.002
											1.000		1.000
											1.000		1.000
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Total Fuel Consumption (gas electr c)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Ad usted CO2	MDIUF x Adjusted Total Fuel Consumpt on	43/57 H ghway Fleet Utility Factor [3]	43/57 Highway FUF x Adjusted Total Fuel Consumpt on Rate	43/57 H ghway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
gal-equiv	*%*	*miles*	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*	*CD or CS*		*CD or CS*	
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											1.000		1.000

Total Fuel Consumption (gas electr c)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Ad usted CO2	MDIUF x Adjusted Total Fuel Consumpt on	43/57 H ghway Fleet Utility Factor [3]	43/57 Highway FUF x Adjusted Total Fuel Consumpt on Rate	43/57 H ghway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
gal-equiv	*%*	*miles*	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*	*CD or CS*		*CD or CS*	
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