CONTRACT NO. 66685

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-3,38-5)L	IROQUOIS	16	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GIVEN CONDITIONS - I-57 AT GILMAN

ROADWAY DATA:	PAVEMENT WIDTH	48 FT
	NUMBER OF LANES	4
	MEDIAN WIDTH	64 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT (POLE BASE TO LUMINOUS CENTER)	50 FT
	MAST ARM LENGTH	15 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	20 FT
LUMINAIRE DATA:	LAMP TYPE	HPS
	LAMP LUMENS	28,000
	IES VERTICAL DISTRIBUTION	M
	IES CONTROL OF DISTRIBUTION	FC
	IES LATERAL OF DISTRIBUTION	III
	TOTAL LIGHT LOSS FACTOR	0.68
LAYOUT DATA:	SPACING	200 FT
	CONFIGURATION	OPPOSITE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	-5 FT

GIVEN CONDITIONS - ASHKUM RAMPS

ROADWAY DATA:	PAVEMENT WIDTH	14 FT
	NUMBER OF LANES	1
	MEDIAN WIDTH	0 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT (POLE BASE TO LUMINOUS CENTER)	50 FT
	MAST ARM LENGTH	15 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	20 FT
LUMINAIRE DATA:	LAMP TYPE	HPS
	LAMP LUMENS	28,000
	IES VERTICAL DISTRIBUTION	M
	IES CONTROL OF DISTRIBUTION	FC
	IES LATERAL OF DISTRIBUTION	III
	TOTAL LIGHT LOSS FACTOR	0.68
LAYOUT DATA:	SPACING	190 FT
	CONFIGURATION	ONE SIDE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	-5 FT

GIVEN CONDITIONS - GILMAN RAMPS

ROADWAY DATA:	PAVEMENT WIDTH	16 FT
	NUMBER OF LANES	1
	MEDIAN WIDTH	0 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT (POLE BASE TO LUMINOUS CENTER)	50 FT
	MAST ARM LENGTH	15 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	20 FT
LUMINAIRE DATA:	LAMP TYPE	HPS
	LAMP LUMENS	28,000
	IES VERTICAL DISTRIBUTION	M
	IES CONTROL OF DISTRIBUTION	FC
	IES LATERAL OF DISTRIBUTION	III
	TOTAL LIGHT LOSS FACTOR	0.68
LAYOUT DATA:	SPACING	215 FT
	CONFIGURATION	ONE SIDE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	-5 FT

GIVEN CONDITIONS - IL RTE 116

ROADWAY DATA:	PAVEMENT WIDTH	24 FT
	NUMBER OF LANES	2
	MEDIAN WIDTH	0 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT (POLE BASE TO LUMINOUS CENTER)	50 FT
	MAST ARM LENGTH	15 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	13 FT
LUMINAIRE DATA:	LAMP TYPE	HPS
	LAMP LUMENS	28,000
	IES VERTICAL DISTRIBUTION	M
	IES CONTROL OF DISTRIBUTION	FC
	IES LATERAL OF DISTRIBUTION	III
	TOTAL LIGHT LOSS FACTOR	0.68
LAYOUT DATA:	SPACING	200 FT
	CONFIGURATION	ONE SIDE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	+2 FT

GIVEN CONDITIONS - US ROUTE 24

ROADWAY DATA:	PAVEMENT WIDTH	28 FT
	NUMBER OF LANES	2
	MEDIAN WIDTH	18 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT (POLE BASE TO LUMINOUS CENTER)	50 FT
	MAST ARM LENGTH	15 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	20 FT
LUMINAIRE DATA:	LAMP TYPE	HPS
	LAMP LUMENS	28,000
	IES VERTICAL DISTRIBUTION	M
	IES CONTROL OF DISTRIBUTION	FC
	IES LATERAL OF DISTRIBUTION	III
	TOTAL LIGHT LOSS FACTOR	0.68
LAYOUT DATA:	SPACING	340 FT
	CONFIGURATION	STAGRD
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	-5 FT

PERFORMANCE REQUIREMENTS

NOTES:

1. THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE BASED ON THE GIVEN CONDITIONS LISTED.
2. VARIATIONS FROM THE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.
3. THE EXISTING ROADWAY SURFACE ELEVATION IS GENERALLY 3′ HIGHER THAN THE TOP ELEVATION OF THE POLE FOUNDATIONS DUE TO FRONT SLOPES OF THE EXISTING GRADE. THE PHOTOMETRIC CALCULATIONS REQUIRED BY ARTICLE 1067.01(f) SHALL BE PERFORMED USING A 47′ MOUNTING HEIGHT TO ALLOW FOR THIS DIFFERENCE OF ELEVATION.

ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (E_{AVE})	0.6 FOOTCANDLES
	UNIFORMITY RATIO, (E_{AVE}/E_{MIN})	3.0
LUMINANCE:	AVERAGE LUMINANCE: (L_{AVE})	0.4 CD/M^2
	UNIFORMITY RATIOS: (L_{AVE}/L_{MIN})	3.5
	(L_{MAX}/L_{MIN})	6.0
	MAXIMUM VEILING LUMINANCE RATIO: (L_v/L_{AVE})	0.3

REVISIONS	
NAME	DATE
REVISION 1	12/21/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 57

LUMINAIRE PERFORMANCE TABLE

SCALE: VERT. 1"=100'-0" HORIZ.
DATE: 12/13/06
DRAWN BY: JDK
CHECKED BY: JLF

Prepared by: Foth & Van Dyke and Associates, Inc.

FVD # 06I008

PLOT TIME = 3:48:56 PM
PLOT DATE = 12/21/2006
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PLOT SCALE = 100.000 ' / IN.
USER NAME = JLF1