

# Catalog Number

## Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Orde	ring Informa	tion		EXA	MPI	E: DSX0 LE	D P6 40		VOLT SPA NLT	AIR2 P	IRHN DDBXD
DSX0 LED											
Series	LEDs	Color temperature	Distribut				Voltage		Mounting		
DSXO LED	Forward optics           P1         P5           P2         P6           P3         P71           P41            Rotated optics            P10 <sup>2</sup> P12 <sup>2</sup> P11 <sup>2</sup> P13 <sup>12</sup>	30K 3000 K 40K 4000 K 50K 5000 K	T2S T T2M T T3S T T3M T T4M T TFTM F	ype I short (Automotive) ype II short ype II medium ype III short ype III medium ype IV medium yor V medium ype V very short <sup>3</sup>	T5S T5M T5W BLC LCCO RCCO	Type V short <sup>3</sup> Type V medium <sup>3</sup> Type V wide <sup>3</sup> Backlight control <sup>4</sup> Left corner cutoff <sup>4</sup> Right corner cutoff <sup>4</sup>	120 <sup>6</sup> RPA         Rour           208 <sup>6</sup> WBA         Wall           240 <sup>6</sup> SPUMBA         Squa           277 <sup>6</sup> RPUMBA         Rour           347 <sup>6</sup> Shipped separately         480 <sup>6</sup>			nd pole unive	5
Control op Shipped I NITAIR2 PIRHN PER PER5 PER7 DMG		ambient sensor <sup>15</sup> e only (control ordered sepa ntrol ordered separate) <sup>16,17</sup> leads exit fixture) (control o : back of housing for extern	ordered	PIRH High PIR1FC3V High PIR1FC3V High PIRH1FC3V High heig	/low, mot nt, ambler /low, mot nt, ambler /low, mot nt, ambler	ion/ambient sensor, 8–15' it sensor enabled at 5fc <sup>1920</sup> ion/ambient sensor, 15–30 it sensor enabled at 5fc <sup>1920</sup> it sensor enabled at 1fc <sup>1920</sup> ion/ambient sensor, 15–30 it sensor enabled at 1fc <sup>1920</sup> e output <sup>21</sup>	' mounting mounting ' mounting	SF Single DF Double L90 Left rot R90 Right ri DDL Diffuse HA 50°C a	alled -side shield <sup>22</sup> fuse (120, 277, 347V) <sup>6</sup> : fuse (208, 240, 480V) <sup>6</sup> tated optics <sup>2</sup> otated optics <sup>2</sup> ed drop lens <sup>22</sup> mbient operations <sup>1</sup> nerica(n) Act Compliant arately	Finish (veg DDBXD DBLXD DNAXD DWHXD DBLBXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum



(66.0 cm)

13

(33.0 cm)

(7.62 cm)

(17.8 cm)

16 lbs

(7.25 k

Width:

Height,

Height<sub>2</sub>:

Weight (max):

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

DSX0-LED Rev. 07/19/21 Page 1 of 8



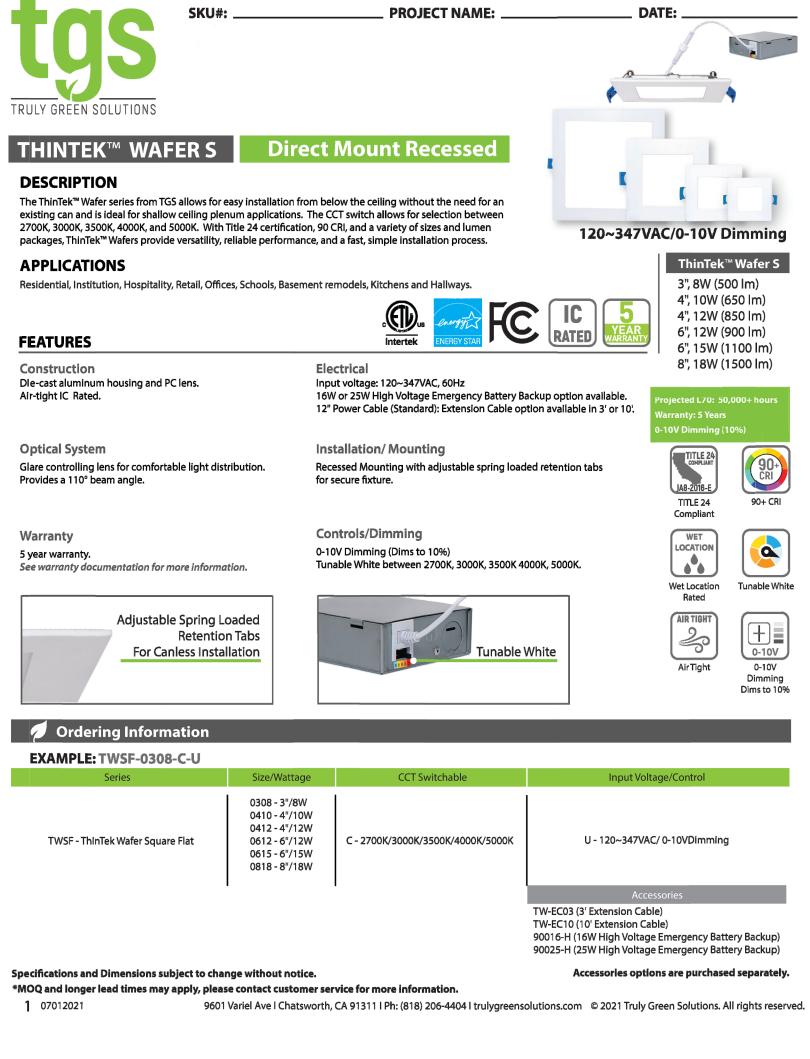
# FEATURES

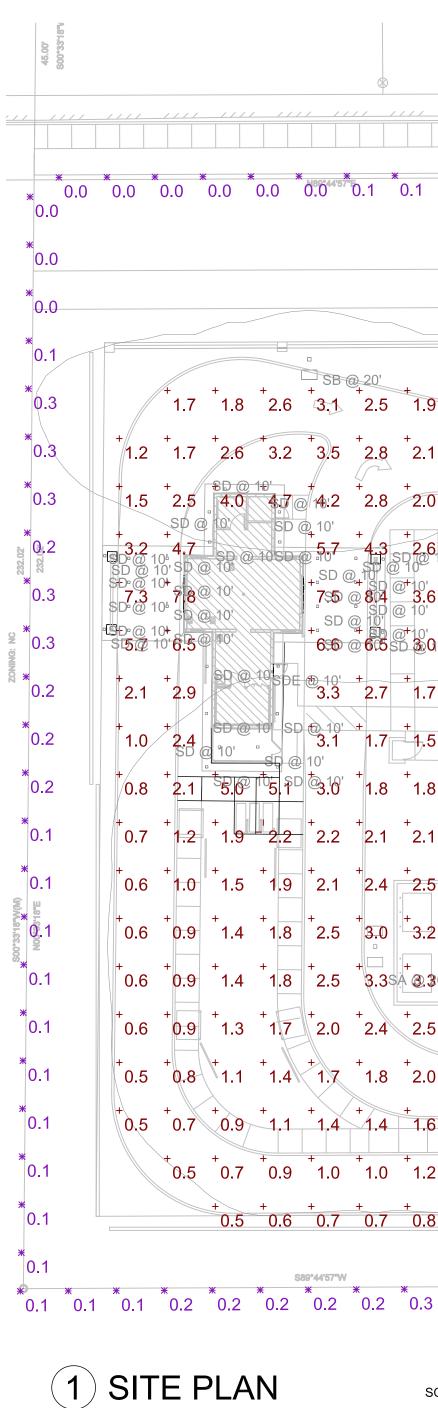
Construction Air-tight IC Rated.

Optical System Provides a 110° beam angle.

Warranty 5 year warranty.

07012021

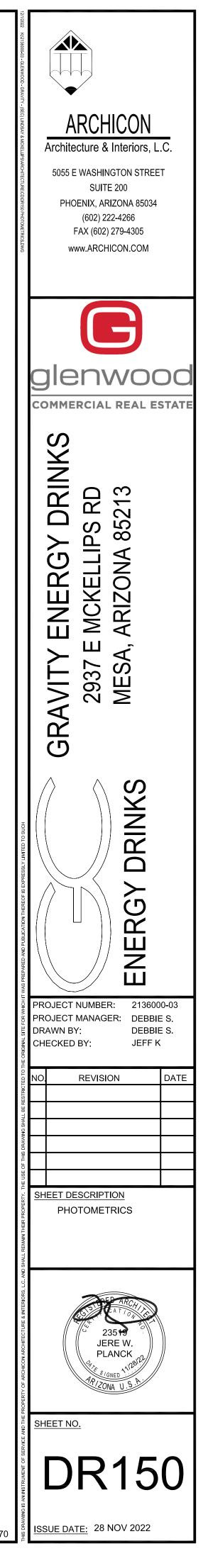


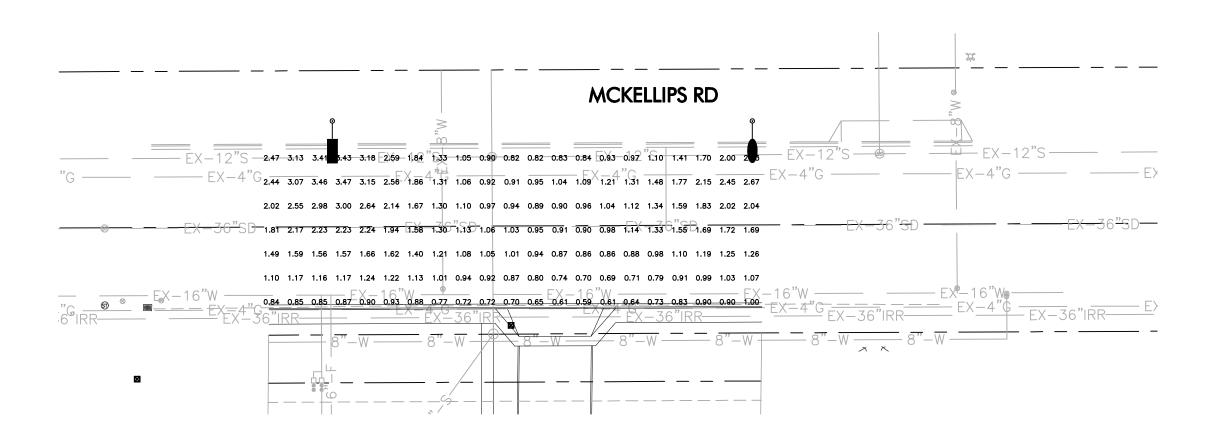


Statistics				4		
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE - FC @ 3' AFG	Ж	0.2 fc	0.5 fc	0.0 fc	N/A	N/A
SITE - FC @ GRADE	+	1.9 fc	8.4 fc	0.1 fc	84.0:1	19.0:1

Schedule					1	_
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	
	SA	3	Lithonia Lighting	(2) DSX0 LED P4 30K T5W MVOLT SPA (FINISH) / SSS 17.5' W/2.5' BASE	TWIN-HEAD DSX0 LED P4 30K T5W MVOLT	L
	SB	1	Lithonia Lighting	DSX0 LED P4 30K T2M MVOLT SPA HS (FINISH) / SSS 17.5' W/2.5' BASE	DSX0 LED P4 30K T2M MVOLT with houseside shield	L
	SD	33	TGS	TWSF 0410 C U (3000K)	THINTEK WAFER S	L
	SDE	1	TGS	TWSF 0410 C U (3000K) 90016-H	THINTEK WAFER S W/EM BATTERY PACK	L

$\begin{array}{c} 1 & 1 & 8 & 1.6 & 1.5 & 1.5 & 1.7 & 1.7 & 1.7 & 1.6 & 1.3 & 1.0 & 0.8 \\ 1.5 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 6 & 1.3 & 1.2 & 1.5 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ 1.5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 1.6 & 1.7 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 1.6 & 1.7 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 1.7 & 2.1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 1.7 & 2.1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 1.7 & 2.2 & 7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 1.7 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 1.7 & 2.3 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 1.6 & 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.9 \\ 1.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 1.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 1.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 1.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 1.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 1.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						45' EXCEPTION TO PARCEL					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			_/ / / /								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \begin{array}{c} & & & & & & & & & & & & & & & & & & &$	* · · · *					* 0.1	* 0.1	*0.1	*` 0.1	• 0.1	*
+ 0.4       0.5       0.2         0.8       0.8       0.8       0.8         9       2.0       1.6       1.4       1.3       1.2       1.2         1       1.8       1.6       1.5       1.5       1.7       1.7       1.7       1.6       1.3       1.0       0.8         0.1       1.5       1.5       1.6       1.7       1.9       2.0       2.1       1.8       1.6       1.3       0.9         0.6       1.3       1.2       1.5       1.8       2.1       2.7       3.2       2.3       1.8       1.4       1.0       0.3         0.6       1.3       1.2       1.5       1.8       2.1       2.7       3.2       2.3       1.8       1.4       1.0       0.3         6       1.3       1.2       1.5       1.8       2.1       2.6       3.24       2.4       1.8       1.4       1.0       0.4         0.4       0.5       1.5       1.5       1.5       1.0       0.4       0.5         1.6       1.6       1.7       1.9       2.0       2.0       1.9       1.8       1.5       1.2       1.0       0.5	+ 0.4       0.5       0.5         0.8       0.8       0.8       0.8         9       2.0       1.6       1.4       1.3       1.2       1.2         1       1.8       1.6       1.5       1.7       1.7       1.7       1.6       1.3       1.0       0.8         0       1.5       1.5       1.7       1.7       1.7       1.6       1.3       1.0       0.8         0       1.5       1.5       1.6       1.7       1.9       2.0       2.1       1.8       1.6       1.3       0.9         6       1.3       1.2       1.5       1.8       2.1       2.7       3.2       2.3       1.8       1.4       1.0       0.3         6       1.3       1.2       1.4       1.8       2.2       2.6       32#       2.8       1.8       1.4       1.0       0.3         6       1.3       1.2       1.4       1.8       2.1       2.1       2.1       1.8       1.5       1.0       0.4         1.4       1.5       1.9       2.1       2.1       2.1       1.4       1.1       0.5       0.5         2.7       2.6	+ 0.4       0.5       0.5         0.8       0.8       0.8       0.8         9       2.0       1.6       1.4       1.3       1.2       1.2         1       1.8       1.6       1.5       1.5       1.7       1.7       1.7       1.6       1.3       1.0       0.8         0.15       1.5       1.6       1.7       1.9       2.0       2.1       1.8       1.6       1.3       0.9         0.6       1.3       1.2       1.5       1.8       2.1       2.7       3.2       2.3       1.8       1.4       1.0       0.3         0.6       1.3       1.2       1.4       1.8       2.2       2.6       398.022.4       1.8       1.4       1.0       0.4         0.4       0.5       1.5       1.6       1.7       1.9       2.0       2.0       1.9       1.8       1.5       1.0       0.4         0.4       1.5       1.6       1.7       1.9       2.0       1.9       1.8       1.5       1.2       1.0       0.5         1.1       2.2       2.1       2.1       1.9       1.6       1.3       1.0       0.5											*
$\begin{array}{c} 0.8 & 0.8 & 0.8 \\ 0.8 & 0.8 & 0.8 \\ 0.8 & 0.8 & 0.8 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.5 & 1.6 & 1.4 & 1.3 & 1.2 & 1.2 \\ 1.1 & 1.8 & 1.6 & 1.5 & 1.5 & 1.7 & 1.7 & 1.7 & 1.6 & 1.3 & 1.0 & 0.8 \\ 0.3 & 1.5 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 &$	$\begin{array}{c} 0.8 & 0.8 & 0.8 \\ 9 & 2.0 & 1.6 & 1.4 & 1.3 & 1.2 & 1.2 \\ 1 & 1.8 & 1.6 & 1.5 & 1.5 & 1.7 & 1.7 & 1.7 & 1.6 & 1.3 & 1.0 & 0.8 \\ 0 & 1.5 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 6 & 1.3 & 1.2 & 1.5 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ 0 & 1.3 & 1.2 & 1.5 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ 0 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 324 & 224 & 1.8 & 1.4 & 1.0 \\ 0 & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 \\ 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 1 & 2 & 2 & 1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 1 & 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 6 & 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 0 & 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 0 & 2.1 & 3 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 100 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 100 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 100 & 100 & 100 & 100 &$	$\begin{array}{c} 0.8 & 0.8 & 0.8 \\ 0.8 & 0.8 & 0.8 \\ 0.8 & 1.6 & 1.4 & 1.3 & 1.2 & 1.2 \\ 1 & 1.8 & 1.6 & 1.5 & 1.5 & 1.7 & 1.7 & 1.7 & 1.6 & 1.3 & 1.0 & 0.8 \\ 0 & 1.5 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5$			0.4	+ 0.5	+0.5						
$\begin{array}{c} 1 & 1 & 8 & 1.6 & 1.5 & 1.5 & 1.7 & 1.7 & 1.7 & 1.6 & 1.3 & 1.0 & 0.8 \\ 1 & 1 & 1.6 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 1 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 1 & 1.2 & 1.4 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ 0 & 1 & 3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 0 & 1 & 3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 0 & 1 & 3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 0 & 1 & 3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 0 & 1 & 3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 1 & 1 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 1 & 1 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.6 & 1.3 \\ 1 & 2 & 2 & 1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.3 & 1.0 \\ 1 & 2 & 2 & 1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 \\ 1 & 2 & 2 & 1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 \\ 1 & 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 1 & 30 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 \\ 1 & 2 & 2 & 1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 1 & 3 & 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 1 & 1 & 1 & 1 & 2 & 1 & 3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ 0 & 2 & 1 & 3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 1 & 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0 & 2 & 1 & 3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0 & 2 & 1 & 3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0 & 2 & 1 & 2 & 1 & 1 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ 0 & 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0 & 2 & 1 & 2 & 1 & 1 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ 0 & 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & $	$\begin{array}{c} 1 & 1.8 & 1.6 & 1.5 & 1.5 & 1.7 & 1.7 & 1.7 & 1.6 & 1.3 & 1.0 & 0.8 \\ 1.1 & 1.8 & 1.6 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 1.5 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 1.3 & 1.2 & 1.4 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 \\ 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 \\ 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 1.5 & 1.6 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.6 & 1.3 \\ 1.9 & 1.8 & 1.9 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 \\ 1.9 & 1.8 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 \\ 1.2 & 2.1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 \\ 5.7 & 2.4 & 2.4 & 2.3 & 2.2 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 \\ 1.0 & 0.5 \\ 5.7 & 2.4 & 2.4 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 \\ 1.0 & 0.5 \\ 5.7 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 \\ 1.0 & 0.4 \\ 3.0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 \\ 0.4 & 0.3 \\ 0.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.8 & 1.5 & 1.2 \\ 0.4 & 1.5 & 1.2 & 0.8 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.0 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 3. & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.0 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0 \\ 3. & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.0 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.0 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.0 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.0 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0$	$\begin{array}{c} 1 & 1.8 & 1.6 & 1.5 & 1.5 & 1.7 & 1.7 & 1.7 & 1.6 & 1.3 & 1.0 & 0.8 \\ 1.3 & 1.2 & 1.5 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ 0.3 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 0.4 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 0.4 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 334 & 224 & 1.8 & 1.4 & 1.0 \\ 0.4 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 0.4 & 1.3 & 1.5 & 1.9 & 2.1 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 0.4 & 1.3 & 1.5 & 1.9 & 2.1 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 0.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 0.4 & 0.5 & 1.6 & 1.6 & 1.9 & 2.1 & 2.1 & 2.6 & 1.7 & 1.4 & 1.1 \\ 0.5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 1.1 & 2.2 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 & 1.0 \\ 1.2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 1.4 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 1.5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 & 0.9 \\ 0.4 & 30 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 & 0.9 \\ 0.5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 & 0.9 \\ 0.5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 & 0.9 \\ 0.5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 & 0.9 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 1.0 & 1.1 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 0.2 & 0.2 & 0.2 & 0.2 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 0.2 & 0.2 & 0.2 & 0.2 & 0.2 \\ 0.2 & 0.2 & 0.2 & 0.2 & 0.2 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.$											
$\begin{array}{c} 0 & 1.5 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ (6) & 1.3 & 1.2 & 1.5 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ (6) & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 324 & 224 & 1.8 & 1.4 & 1.0 \\ (6) & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 324 & 224 & 1.8 & 1.4 & 1.0 \\ (6) & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ (7) & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ (7) & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ (7) & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ (7) & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ (7) & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 1.0 & 1.7 & 1.4 \\ (7) & 1.4 & 1.5 & 1.6 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ (7) & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 \\ (7) & 1.4 & 1.5 & 1.2 & 1.0 & 1.8 & 1.7 & 1.6 & 1.3 & 1.0 \\ (7) & 1.4 & 2.1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 \\ (7) & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 \\ (7) & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.3 & 0.9 \\ (7) & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.3 & 0.9 \\ (7) & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.3 & 0.9 \\ (7) & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ (7) & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ (7) & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ (7) & 2.1 & 2.1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.9 \\ (7) & 100 & 200 & 100 & 2$	$\begin{array}{c} 0 & 1.5 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 6 & 1.3 & 1.2 & 1.5 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 324 & 224 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 324 & 224 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 324 & 224 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 3 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 & 0.9 \\ 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 6 & 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 0 & 3 & 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.3 & 0.9 \\ 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.3 & 0.9 \\ 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.3 & 0.9 \\ 0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 0 & 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0 & 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0 & 2 & 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ \hline & 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ \hline & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0$	$\begin{array}{c} 0 & 1.5 & 1.5 & 1.6 & 1.7 & 1.9 & 2.0 & 2.1 & 1.8 & 1.6 & 1.3 & 0.9 \\ 6 & 1.3 & 1.2 & 1.5 & 1.8 & 2.1 & 2.7 & 3.2 & 2.3 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 3.24 & 2.4 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 3.24 & 2.4 & 1.8 & 1.4 & 1.0 \\ 6 & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 7 & 1.4 & 1.5 & 1.2 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 & 1.0 \\ 7 & 1.4 & 1.5 & 1.2 & 1.2 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 7 & 1.4 & 1.5 & 1.2 & 1.2 & 1.2 & 1.8 & 1.5 & 1.2 & 1.0 \\ 7 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 7 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 7 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.3 & 0.9 \\ 7 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.3 & 0.9 \\ 7 & 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 7 & 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 7 & 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 7 & 100 & 200 & 100 & 200 & 200 & 200 \\ 7 & 100 & 200 & 100 & 200 & 200 & 200 \\ 7 & 100 & 200 & 100 & 200 & 200 & 200 \\ 7 & 100 & 200 & 100 & 200 & 200 & 200 \\ 7 & 100 & 200 & 100 & 200 & 100 & 200 & 200 \\ 7 & 100 & 200 & 100 & 100 & 100 & 100 & 100 \\ 7 & 100 & 200 & 100 & 100 & 100 & 100 & 100 \\ 7 & 100 & 200 & 100 & 100 & 100 & 100 & 100 & 100 & 100 & 100 \\ 7 & 100 & 200 & 1$						_1					
$\begin{array}{c} 6 \\ 6 \\ 1.3 \\ 1.2 \\ 1.3 \\ 1.2 \\ 1.3 \\ 1.2 \\ 1.4 \\ 1.5 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.3 \\ 1.2 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.3 \\ 1.2 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.3 \\ 1.2 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.8 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.8 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.8 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.9 \\ 1.8 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.8 \\ 1.0 \\ 1.1 \\ 1.8 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.8 \\ 1.7 \\ 1.6 \\ 1.7 \\ 1.8 \\ 1.7$	$\begin{array}{c} 0.3\\ 6 & 0.4\\ 6 & 1.3\\ 1.2\\ 1.3\\ 1.2\\ 1.4\\ 1.5\\ 1.5\\ 1.4\\ 1.5\\ 1.5\\ 1.4\\ 1.5\\ 1.5\\ 1.4\\ 1.5\\ 1.2\\ 1.4\\ 1.5\\ 1.5\\ 1.2\\ 1.4\\ 1.5\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.5\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.5\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.6\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.5\\ 1.2\\ 1.5\\ 1.5\\ 1.5\\ 1.5\\ 1.5\\ 1.5\\ 1.5\\ 1.5$	$\begin{array}{c} 0.3\\ 6& 0 \\ 1.3\\ 1.2\\ 1.3\\ 1.2\\ 1.3\\ 1.2\\ 1.3\\ 1.2\\ 1.3\\ 1.2\\ 1.3\\ 1.3\\ 1.2\\ 1.3\\ 1.3\\ 1.5\\ 1.4\\ 1.5\\ 1.4\\ 1.5\\ 1.4\\ 1.5\\ 1.4\\ 1.5\\ 1.6\\ 1.3\\ 1.2\\ 1.3\\ 1.3\\ 1.5\\ 1.5\\ 1.4\\ 1.5\\ 1.6\\ 1.3\\ 1.5\\ 1.5\\ 1.6\\ 1.5\\ 1.4\\ 1.5\\ 1.6\\ 1.5\\ 1.6\\ 1.5\\ 1.6\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.7\\ 1.4\\ 1.5\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.5\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.5\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.6\\ 1.7\\ 1.8\\ 1.7\\ 1.6\\ 1.7\\ 1.8\\ 1.7\\ 1.6\\ 1.7\\ 1.8\\ 1.7\\ 1.8\\ 1.7\\ 1.8\\ 1.7\\ 1.8\\ 1.7\\ 1.8\\ 1.7\\ 1.8\\ 1.7\\ 1.8\\ 1.7\\ 1.8\\ 1.7\\ 1.2\\ 0.8\\ 0.3\\ 0.3\\ 0.3\\ 0.3\\ 0.3\\ 0.3\\ 0.3\\ 0.3$	+	/	/								0.3
$\begin{array}{c} 0 & 1.3 & 1.2 & 1.4 & 1.8 & 2.2 & 2.6 & 3.94 & 2.94 & 1.8 & 1.4 & 1.0 \\ 0 & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ .5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ .5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ .5 & 1.6 & 1.6 & 1.7 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ .1 & 2.2 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 & 1.0 \\ .5 & 2.4 & 2.4 & 2.3 & 2.2 & 2 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ .2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ .2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ .5 & 2.4 & 2.4 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ .5 & 2.4 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ .5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ .0 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ .6 & 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ .2 & 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ .3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ .2 & 2.7 & 1.0 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ .3 & 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ .2 & 1.3 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ .3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ .2 & 1.3 & 1.4 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.4 & 1.0 \\ .3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ .2 & 0.0 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ .2 & 0.0 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ .2 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 \\ .2 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 \\ .2 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 \\ .2 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 \\ .2 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.$	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	$ \begin{array}{c} & & & & & & & & & & & & & & & & & & &$	.0 1.5	_ ) _									0.3
$\begin{array}{c} 0.0 & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 0.0 & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 \\ 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 \\ 1.8 & 1.9 & 1.8 & 1.9 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 \\ 1.2 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 \\ 1.2 & 2.1 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 \\ 1.2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.8 & 1.5 & 1.2 \\ 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 \\ 1.30 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 \\ 0.4 & 0.4 \\ 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.3 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 \\ 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.3 & 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.3 & 0.3 & 0.3 & 0.3 & 0.3 \\ 0.3 & 0.3 & 0.3 & 0.3 & 0.3 & 0.3 \\ 0.3 & 0.3 & 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.3 & 0.3 & 0.3 & 0.3 & 0.3 & 0.3 \\ 0.3 & 0.3 & 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 \\ 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.4 & 0.$	$\begin{array}{c} 0.0 & 1.3 & 1.3 & 1.5 & 1.9 & 2.1 & 2.6 & 2.9 & 2.2 & 1.8 & 1.5 & 1.0 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 \\ 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.8 & 1.5 & 1.2 \\ 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 30 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 \\ 5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 \\ 0.4 & 0.4 \\ 0.3 & 0.2 & 1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 \\ 0.4 & 0.4 \\ 0.3 & 0.3 \\ 0.4 & 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 \\ 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 \\ 0.4 & 0.3 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 0.2 & 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 8 & 1.0 & 1.1 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ 3 & 0.3 \\ 0.3 \\ 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ \hline \begin{array}{c} 0.2 \\ 0.2$	$\begin{array}{c} 0.0 & + 1.3 & + 1.3 & + 1.5 & + 1.9 & + 2.4 & + 2.6 & + 2.9 & + 2.2 & + 1.8 & + 1.5 & + 1.0 \\ \hline 0.0 & + 1.3 & + 1.3 & + 1.5 & + 1.9 & + 2.4 & + 2.6 & + 2.9 & + 2.2 & + 1.8 & + 1.5 & + 1.0 \\ \hline 7 & + 1.4 & + 1.5 & + 1.6 & + 1.9 & + 2.1 & + 2.1 & + 2.0 & + 1.7 & + 1.4 & + 1.1 \\ \hline 5 & + 1.6 & + 1.7 & + 1.9 & + 2.0 & + 2.0 & + 1.9 & + 1.8 & + 1.6 & + 1.3 & + 1.0 \\ \hline 5 & + 1.9 & + 1.8 & + 1.9 & + 1.9 & + 1.8 & + 1.7 & + 1.6 & + 1.3 & + 1.0 \\ \hline 1 & + 2.2 & + 2.1 & + 2.1 & + 1.9 & + 1.8 & + 1.7 & + 1.6 & + 1.4 & + 1.2 & + 1.0 \\ \hline 1 & + 2.2 & + 2.1 & + 2.1 & + 1.9 & + 1.8 & + 1.7 & + 1.6 & + 1.4 & + 1.2 & + 1.0 \\ \hline 5 & - 2.4 & - 2.4 & - 2.3 & + 2.2 & + 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.0 \\ \hline 5 & - 2.4 & - 2.4 & - 2.4 & + 2.3 & + 2.2 & - 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.0 \\ \hline 1 & - 2.7 & - 2.6 & - 2.4 & - 2.3 & + 2.2 & - 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.0 \\ \hline 1 & - 2.7 & - 2.6 & - 2.4 & - 2.3 & + 2.2 & - 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.0 \\ \hline 1 & - 30^{\circ} & 2.7 & - 2.5 & - 2.5 & - 2.5 & - 2.5 & - 2.9 & - 2.8 & - 2.1 & + 1.8 & + 1.3 & + 0.9 \\ \hline 1 & - 30^{\circ} & 2.1 & - 2.1 & - 2.1 & - 2.1 & - 2.1 & - 1.7 & + 1.2 & - 0.8 \\ \hline 1 & - 1 & - 1 & - 2 & - 2.3 & - 2.5 & - 3.0 & - 2.9 & - 2.1 & + 1.7 & + 1.2 & - 0.8 \\ \hline 1 & - 1 &$					//					//	8 0.3
$\begin{array}{c} 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 8 & 1.9 & 1.8 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 & 1.0 \\ 5 & 2.4 & 2.4 & 2.3 & 2.2 & 2.1 & 2.0 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 1 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.3 & 1.7 & 1.3 & 0.9 \\ 0.3 & 0.4 & 0.5 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.8 \\ 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 0.3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ \end{array}$	$\begin{array}{c} 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 8 & 1.9 & 1.8 & 1.9 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 & 1.0 \\ 5 & 2.4 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 3 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 5 & 2.3 & 2.4 & 2.4 & 2.4 & 2.7 & 2.9 & 2.8 & 2.1 & 1.7 & 1.2 & 0.8 \\ 6 & 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 6 & 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 6 & 1.7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.9 \\ 8 & 1.0 & 1.1 & 1.2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ \end{array}$	$\begin{array}{c} 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ 7 & 1.4 & 1.5 & 1.6 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.7 & 1.4 & 1.1 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 2.0 & 2.0 & 1.9 & 1.8 & 1.6 & 1.3 & 1.0 \\ 5 & 1.6 & 1.6 & 1.7 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 8 & 1.9 & 1.8 & 1.9 & 1.9 & 1.9 & 1.8 & 1.7 & 1.6 & 1.5 & 1.3 & 1.0 \\ 1 & 2.2 & 2.1 & 2.1 & 2.1 & 2.1 & 1.9 & 1.8 & 1.7 & 1.6 & 1.4 & 1.2 & 1.0 \\ 5 & 2.4 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.8 & 1.5 & 1.2 & 1.0 \\ 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 2 & 2.7 & 2.6 & 2.4 & 2.3 & 2.2 & 2.1 & 1.9 & 1.6 & 1.3 & 1.0 \\ 1 & 2 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 1 & 30 & 2.7 & 2.5 & 2.5 & 2.5 & 2.5 & 2.9 & 2.8 & 2.1 & 1.8 & 1.3 & 0.9 \\ 1 & 30 & 2.1 & 2.1 & 2.2 & 2.3 & 2.5 & 3.0 & 2.9 & 2.1 & 1.7 & 1.2 & 0.8 \\ 1 & 7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 1 & 7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.8 \\ 1 & 7 & 1.8 & 1.9 & 2.1 & 2.1 & 2.1 & 2.0 & 1.8 & 1.5 & 1.2 & 0.9 \\ 1 & 1 & 1 & 2 & 1.3 & 1.4 & 1.5 & 1.7 & 1.8 & 1.8 & 1.7 & 1.5 & 1.2 & 0.9 \\ 1 & 1 & 1 & 2 & 1.3 & 1.3 & 1.2 & 1.2 & 1.1 & 1.0 \\ 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ 3 & 0.4 & 0.5 & 0.5 & 0.5 & 0.5 & 0.5 & 0.4 & 0.4 & 0.4 & 0.3 & 0.2 \\ \hline \end{array}$	5										0.4
$\begin{array}{c} 0.5 \\ 1.6 \\ 1.6 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.9 \\$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array}{} \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array}{} \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array}{} \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array}{} \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array} \end{array} \\ \end{array} \\$	$\begin{array}{c} 0.5\\ 5\\ 5\\ 1.6\\ 1.6\\ 1.6\\ 1.6\\ 1.6\\ 1.6\\ 1.6\\ 1.6$										+	
$\begin{array}{c} \begin{array}{c} & & & & & & & & & & & & & & & & & & &$	$ \begin{array}{c} \begin{array}{c} & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c} \begin{array}{c} & & & & & & & & & & & & & & & & & & &$											
$\begin{array}{c} 1 & + 2.2 & + 2.1 & + 2.1 & + 2.1 & + 2.1 & + 1.9 & + 1.8 & + 1.7 & + 1.6 & + 1.4 & + 1.2 & + 1.0 \\ \hline & + 2.4 & 2.4 & 2.3 & + 2.2 & + 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.0 \\ \hline & + 2.7 & + 2.6 & + 2.4 & + 2.3 & + 2.3 & + 2.2 & + 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.0 \\ \hline & + 2.7 & + 2.6 & + 2.4 & + 2.4 & + 2.4 & + 2.7 & + 2.9 & + 2.8 & + 2.1 & + 1.8 & + 1.3 & + 0.9 \\ \hline & + 2.7 & + 2.5 & + 2.5 & + 2.5 & + 2.5 & + 2.5 & + 2.9 & + 2.8 & + 2.1 & + 1.8 & + 1.3 & + 0.9 \\ \hline & + 2.7 & + 2.5 & + 2.5 & + 2.5 & + 2.5 & + 2.9 & + 2.8 & + 2.3 & + 1.7 & + 1.3 & + 0.9 \\ \hline & - 5 & - 2.3 & + 2.4 & + 2.4 & + 2.4 & + 2.7 & + 2.9 & + 2.8 & + 2.3 & + 1.7 & + 1.3 & + 0.9 \\ \hline & - 5 & - 2.3 & + 2.4 & + 2.4 & + 2.4 & + 2.7 & + 2.9 & + 2.8 & + 2.3 & + 1.7 & + 1.3 & + 0.9 \\ \hline & - 5 & - 2.3 & + 2.4 & + 2.4 & + 2.4 & + 2.7 & + 2.9 & + 2.1 & + 1.7 & + 1.2 & + 0.8 \\ \hline & - 5 & - 2.3 & + 2.4 & + 2.4 & + 2.4 & + 2.4 & + 2.4 & + 1.7 & + 1.2 & + 0.8 \\ \hline & - 1.7 & - 1.8 & - 1.9 & - 2.1 & - 1.7 & - 1.8 & - 1.5 & - 1.2 & - 0.8 \\ \hline & - 1.7 & - 1.8 & - 1.4 & - 1.0 & - 1.4 & - 1.5 & - 1.2 & - 0.9 \\ \hline & - 1 & - 1.4 & - 1.2 & - 1.3 & - 1.3 & - 1.2 & - 1.4 & - 1.0 \\ \hline & - 1 & - 1.4 & - 1.2 & - 1.3 & - 1.3 & - 1.2 & - 1.4 & - 1.0 \\ \hline & - 1 & - 1.4 & - 1.4 & - 1.4 & - 1.4 & - 1.4 & - 1.4 & - 1.4 \\ \hline & - 2 & -$	$\begin{array}{c} 1 & + 2.2 & + 2.1 & + 2.1 & + 2.1 & + 1.9 & + 1.8 & + 1.7 & + 1.6 & + 1.4 & + 1.2 & + 1.0 \\ \hline & + 2.4 & 2.3 & + 2.2 & + 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.0 \\ \hline & + 2.7 & + 2.6 & + 2.4 & + 2.3 & + 2.3 & + 2.2 & + 2.1 & + 1.9 & + 1.6 & + 1.3 \\ \hline & + 2.7 & + 2.6 & + 2.4 & + 2.3 & + 2.5 & +$	$\begin{array}{c} 1 & + 2.2 & + 2.1 & + 2.1 & + 2.1 & + 1.9 & + 1.8 & + 1.7 & + 1.6 & + 1.4 & + 1.2 & + 1.0 \\ \hline & + 2.4 & 2.3 & + 2.2 & + 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.2 & + 1.0 \\ \hline & + 2.7 & + 2.6 & + 2.4 & + 2.3 & + 2.3 & + 2.2 & + 2.1 & + 1.9 & + 1.6 & + 1.3 & + 1.0 \\ \hline & + 2.7 & + 2.6 & + 2.4 & + 2.3 & + 2.3 & + 2.2 & + 2.1 & + 1.9 & + 1.6 & + 1.3 & + 0.9 \\ \hline & + 2.7 & + 2.5 & + 2.5 & + 2.5 & + 2.5 & + 2.5 & + 2.9 & + 2.8 & + 2.1 & + 1.8 & + 1.3 & + 0.9 \\ \hline & + 30 & 2.7 & + 2.5 & + 2.5 & + 2.5 & + 2.5 & + 2.9 & + 2.8 & + 2.1 & + 1.8 & + 1.3 & + 0.9 \\ \hline & 5 & 2.3 & + 2.4 & + 2.4 & + 2.4 & + 2.7 & + 2.9 & + 2.8 & + 2.3 & + 1.7 & + 1.3 & + 0.9 \\ \hline & 5 & - 2.3 & + 2.4 & + 2.4 & + 2.4 & + 2.7 & + 2.9 & + 2.8 & + 2.3 & + 1.7 & + 1.3 & + 0.9 \\ \hline & & 5 & - 2.3 & + 2.4 & + 2.4 & + 2.4 & + 2.7 & + 2.9 & + 2.8 & + 2.3 & + 1.7 & + 1.3 & + 0.9 \\ \hline & & 5 & - 2.3 & + 2.4 & + 2.4 & + 2.4 & + 2.7 & + 2.9 & + 2.1 & + 1.7 & + 1.2 & + 0.8 \\ \hline & & - 2.1 & + 2.1 & + 2.2 & + 2.3 & + 2.5 & + 3.0 & + 2.9 & + 2.1 & + 1.7 & + 1.2 & + 0.8 \\ \hline & & - 1.4 & + 1.5 & + 1.7 & + 1.8 & + 1.8 & + 1.7 & + 1.5 & + 1.2 & + 0.9 \\ \hline & & - 1 & - 1.4 & + 1.2 & + 1.3 & + 1.3 & + 1.2 & + 1.4 & + 1.4 \\ \hline & & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 \\ \hline & & - 2.1 & - 2.1 & - 2.1 & - 2.1 & - 2.1 & - 1.1 & - 1.0 \\ \hline & & - 2.1 & - 2.1 & - 2.1 & - 2.1 & - 2.1 & - 2.1 & - 2.4 & - 2.4 \\ \hline & & - 2.1 & - 2.1 & - 2.1 & - 2.1 & - 2.1 & - 2.4 & - 2.4 & - 2.4 \\ \hline & & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 & - 2.4 \\ \hline & & - 2.4 $	.8 1.9	+ 1.8	1.9	+ 1.9	+ + 1.9 1.8	+ 1.7	, + 1.6	+1.5	+ 1.3	1.0	
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \begin{array}{c} \end{array}{} \\ \begin{array}{c} \end{array}{} \\ \end{array}{} \\ \begin{array}{c} \end{array}{} \end{array}{} \\ \begin{array}{c} \end{array}{} \end{array}{} \\ \end{array}{} \\ \begin{array}{c} \end{array}{} \end{array}{} \\ \begin{array}{c} \end{array}{} \end{array}{} \\ \begin{array}{c} \end{array}{} \end{array}{} \\ \begin{array}{c} \end{array}{} \end{array}{} \\ \end{array}{} \\ \begin{array}{c} \end{array}{} \end{array}{} \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \\ \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \begin{array}{c} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array} \end{array} \\ \end{array} \\$	2.1 + 2.2	+ 2.1	2.1	+ 2.1	1.9 1.8	+ 1.7	′	+ 1.4	+ 1.2	1.0	
$\begin{array}{c} 0 \\ 2.7 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.9 \\ 2.8 \\ 2.3 \\ 1.7 \\ 1.8 \\ 0.9 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0.2 \\ 1.7 \\ 1.3 \\ 0.9 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \\ 1.7 \\ 1.8 \\ 1.9 \\ 2.1 \\ 1.7 \\ 1.2 \\ 0.8 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0$	$\begin{array}{c} 0 \\ 30 \\ 2.7 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.9 \\ 2.8 \\ 2.3 \\ 1.7 \\ 1.3 \\ 0.9 \\ 5A \\ 2.3 \\ 2.3 \\ 1.7 \\ 1.3 \\ 0.9 \\ 5A \\ 2.3 \\ 1.7 \\ 1.3 \\ 0.9 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \\ 1.7 \\ 1.8 \\ 1.9 \\ 2.1 \\ 2.1 \\ 2.1 \\ 2.1 \\ 2.2 \\ 2.3 \\ 2.5 \\ 3.0 \\ 2.9 \\ 2.1 \\ 1.7 \\ 1.2 \\ 0.8 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.5 $	$\begin{array}{c} 0 \\ 2.7 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.9 \\ 2.8 \\ 2.3 \\ 1.7 \\ 1.8 \\ 0.9 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0.2 \\ 1.7 \\ 1.3 \\ 0.9 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \\ 1.7 \\ 1.8 \\ 1.9 \\ 2.1 \\ 2.1 \\ 2.1 \\ 2.2 \\ 2.3 \\ 2.5 \\ 3.0 \\ 2.9 \\ 2.1 \\ 1.7 \\ 1.3 \\ 0.9 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.3 \\ 0.2 \\ 0$											* 0.4
$\begin{array}{c} 0.3 \\ 0.3 \\ 0.5 \\ 2.3 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.7 \\ 2.9 \\ 2.3 \\ 1.7 \\ 1.3 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.3 \\ 0.4 \\ 0.5 \\$	$\begin{array}{c} 0.3 \\ 5 \\ 2.3 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.7 \\ 2.9 \\ 2.8 \\ 2.3 \\ 1.7 \\ 1.3 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0.1 \\ 1.7 \\ 1.8 \\ 1.9 \\ 2.1 \\ 2$	$\begin{array}{c} 0.3 \\ 0.3 \\ 0.5 \\ 2.3 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.7 \\ 2.9 \\ 3.6 \\ 2.3 \\ 1.7 \\ 1.3 \\ 0.9 \\ 3.6 \\ 2.3 \\ 1.7 \\ 1.3 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.3 \\ 0.4 \\ 0.5 \\$											M81.82.005
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$											*
$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$							<u> </u>				
$\begin{array}{c} 0.3 \\ 0.4 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.3 \\ 0.2 \\$	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c} 0.3 \\$				/			//				0.3
$\begin{array}{c} + & + & + & + & + & + & + & + & + & + $	$\begin{array}{c} + & + & + & + & + & + & + & + & + & + $	$\begin{array}{c} + & + & + & + & + & + & + & + & + & + $									//	0.8	*0.3
0.3 * * * * * * * * * * * * * * * * * * *	0.3 * * * * * * * * * * * * * * * * * * *	0.3 * * * * * * * * * * * * * * * * * * *	+	+ +	÷	+	+ +	+	۲.۵ + 1.1	1.2 + 1.0	0.9		*
*       *	*       *	*       *					110 112	112	ari-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			*
NORTH 0' 10' 20' 40' 60	NORTH 0' 10' 20' 40' 60	NORTH 0' 10' 20' 40' 60			0.5	*	* *	* 0.5	* 0.4	* 0.4	* 0.4	* 0.3	
						NO	ORTH	0' [	10' 	20' 		40' 	6   
								I	U.L			Ш	
									Lumons	s Per	Liaht La	ss	
Lamp Filename Lumens Per Light Loss Factor Wattage	Liamp Ellename I Viattade I	Liamp Wattade	Lamp				Filename			η	-		Wattage
Liamp Wattage	LampFilenameLampFactorWattageLED - 3000KDSX0_LED_P4_3 0K_T5W_MVOLT101080.91184	LampFilenameLampFactorWattageLED - 3000KDSX0_LED_P4_3 0K_T5W_MVOLT101080.91184		00K			DSX0_LED_ 0K_T5W_M		Lan		Facto	r	
LampFilenameLampFactorWattageLED - 3000KDSX0_LED_P4_3 0K_T5W_MVOLT101080.91184	LampFilenameLampFactorWattageLED - 3000KDSX0_LED_P4_3 OK_T5W_MVOLT .ies101080.91184LED - 3000KDSX0_LED_P4_3 OK_T2M_MVOLT80140.9192	LampFlienameLampFactorWattageLED - 3000KDSX0_LED_P4_3 0K_T5W_MVOLT .ies101080.91184LED - 3000KDSX0_LED_P4_3 0K_T2M_MVOLT80140.9192	LED - 300				DSX0_LED_ 0K_T5W_MV .ies DSX0_LED_ 0K_T2M_MV	/OLT 	Lan 101	08	Facto 0.91	r	184
LampFilenameLampFactorWattageLED - 3000KDSX0_LED_P4_3 0K_T5W_MVOLT .ies101080.91184LED - 3000KDSX0_LED_P4_3 0K_T2M_MVOLT80140.9192	Lamp       Factor       Wattage         LED - 3000K       DSX0_LED_P4_3 0K_T5W_MVOLT .ies       10108       0.91       184         LED - 3000K       DSX0_LED_P4_3 0K_T2M_MVOLT _HS.ies       8014       0.91       92         LED - 3000K       TWSF-0410-C-U (2700K)_IESNA       656       0.91       9.9	Lamp       Factor       Wattage         LED - 3000K       DSX0_LED_P4_3 0K_T5W_MVOLT .ies       10108       0.91       184         LED - 3000K       DSX0_LED_P4_3 0K_T2M_MVOLT _HS.ies       8014       0.91       92         LED - 3000K       TWSF-0410-C-U (2700K)_IESNA       656       0.91       9.9	LED - 300	00K			DSX0_LED_ 0K_T5W_MV .ies DSX0_LED_ 0K_T2M_MV _HS.ies TWSF-0410- (2700K)_IES	/OLT _P4_3 /OLT -C-U	Lan 101 80 <sup>7</sup>	08	6.91	r	184 92





400W HPS Cobrahead Type III Distribution, 20' Mast Arm candela file 'GE7323.IES' mounting height= 45 ft number locations= 1, number luminaires= 1 kw all locations= 0.4

0-----

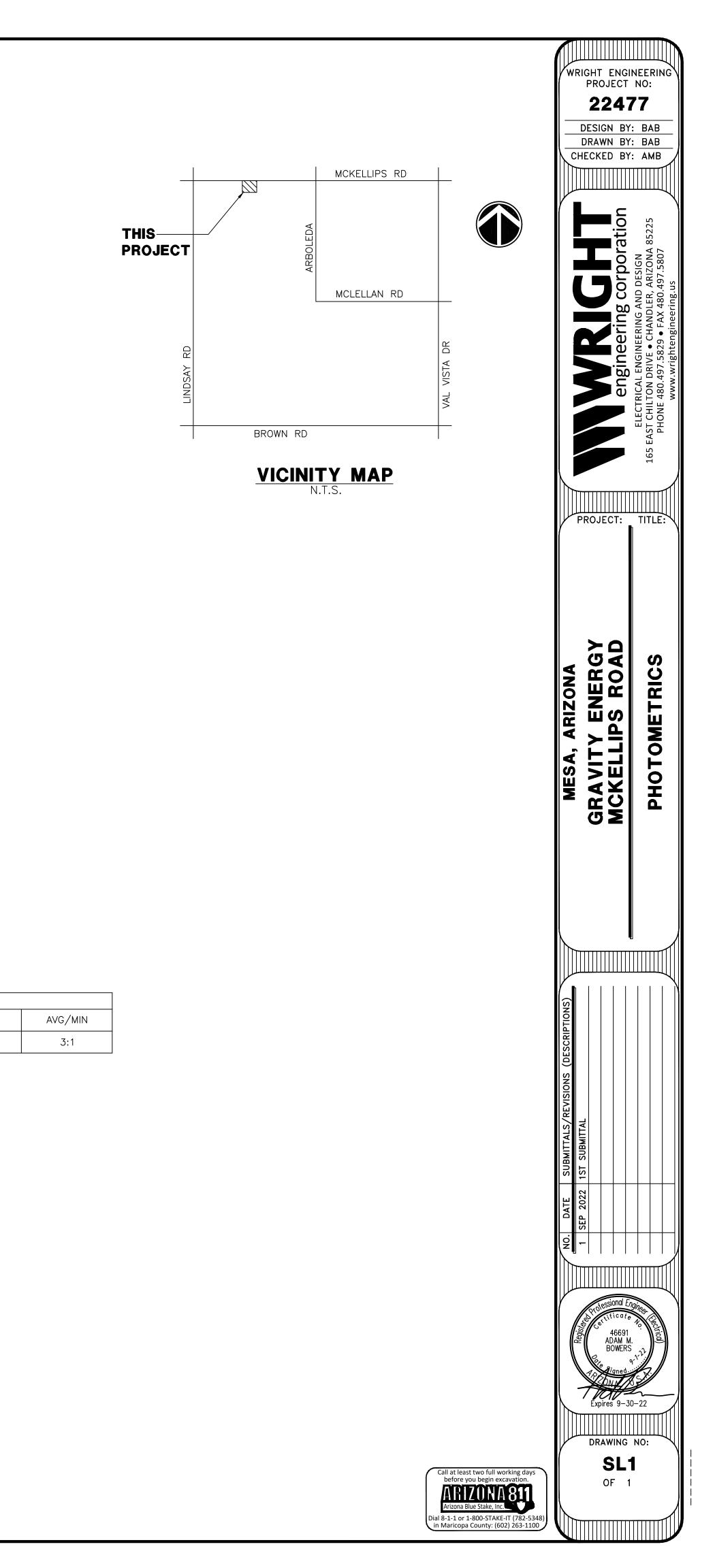
 27000 LUMEN
 Type 3 Distribution
 20' Mast Arm
 candela file 'ERL2\_27C3 1 lamp(s) per luminaire Light Loss Factor = 0.9 mounting height= 45 number locations= 1, kw all locations= 0.2

> MCKELLIPS RD MCKELLIPS RD 147 points at z=0, sp 10ft by 10ft HORIZONTAL FOOTCANDLES Average 1.40 Maximum 3.47 Minimum 0.59 Avg:Min 2.38 Max:Min 5.88 Coef Var 0.50 UnifGrad 1.43

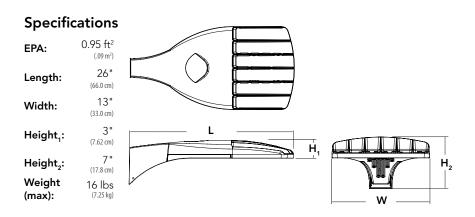
# GRAVITY ENERGY MCKELLIPS ROAD PHOTOMETRICS

1 lamp(s) per luminaire, 50000 initial lumens per lamp Light Loss Factor = 0.810, watts per luminaire = 400

		ROADW	AY DESIGN CI	RITERIA
	STREET	TYPE	PEDESTRIAN CONFLICT	AVG FC
C330IES'	MCKELLIPS RD	ARTERIAL	MEDIUM	1.3
re, photometry is absolute ).900, watts per luminaire = 237 5 ft				
number luminaires= 1				



# **D-Series Size 0** LED Area Luminaire d"series **Buy American**



Catalog Numbe

Notes

Туре

#### Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Order	ing Informa	tion	EX	AMPLE: DSX0 LE	D P6 40	к тзм м	/OLT SPA NLT	AIR2 PIRHN DDBXD
DSX0 LED								
Series	LEDs	Color temperature	Distribution		Voltage		Mounting	
DSX0 LED	Forward optics           P1         P5           P2         P6           P3         P7 <sup>1</sup> P4 <sup>1</sup> Rotated optics           P10 <sup>2</sup> P12 <sup>2</sup> P11 <sup>2</sup> P13 <sup>1,2</sup>	30K 3000 K 40K 4000 K 50K 5000 K	T1SType I short (Automotive)T2SType II shortT2MType II mediumT3SType III shortT3MType III mediumT4MType IV mediumTFTMForward throw mediumT5VSType V very short 3	T5SType V short 3T5MType V medium 3T5WType V wide 3BLCBacklight control 4LCC0Left corner cutoff4RCC0Right corner cutoff 4		120V-277V) <sup>5,6</sup> 277V-480V) <sup>78,9</sup>	RPA Rou WBA Wal SPUMBA Squ RPUMBA Rou Shipped separately KMA8 DDBXD U Mas	are pole mounting nd pole mounting <sup>10</sup> I bracket <sup>3</sup> are pole universal mounting adaptor <sup>11</sup> nd pole universal mounting adaptor <sup>11</sup> st arm mounting bracket adaptor ecify finish) <sup>12</sup>
Control opti	ions					Other options		Finish (required)
	<b>stalled</b> nLight AIR generation 2 ena Network, high/low motion/		he <b>PIRH</b> Hi	igh/low, motion/ambient sensor, 8-15' eight, ambient sensor enabled at 5fc <sup>19,21</sup> igh/low, motion/ambient sensor, 15-3( eight, ambient sensor enabled at 5fc <sup>19,21</sup>	' mounting		<b>alled</b> -side shield <sup>22</sup> fuse (120, 277, 347V) <sup>6</sup>	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum

- PER NEMA twist-lock receptacle only (control ordered separate) 16 PER5 Five-pin receptacle only (control ordered separate) 16,17 Seven-pin receptacle only (leads exit fixture) (control ordered separate) <sup>16,17</sup> PER7
- DMG 0-10V dimming extend out back of housing for external control (control ordered separate)
- PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc 19
- High/low, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 1fc  $^{\rm 19,20}$ PIRH1FC3V Field adjustable output<sup>21</sup>

FA0

DF Double fuse (208, 240, 480V)<sup>6</sup> L90 Left rotated optics <sup>2</sup>

DWHXD

DDBTXD

DBLBXD

DNATXD

White

Textured dark bronze

Textured black

Textured natural

aluminum

DWHGXD Textured white

- Right rotated optics <sup>2</sup> R90
- DDL Diffused drop lens<sup>22</sup>
- HA 50°C ambient operations<sup>1</sup> BAA Buy America(n) Act Compliant

#### Shipped separately

- BS Bird spikes 23
- EGS External glare shield



#### Accessories

Order	red and shipped separately.
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>24</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) 24
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) 24
DSHORT SBK U	Shorting cap 24
DSXOHS 20C U	House-side shield for P1,P2,P3 and P4 <sup>22</sup>
DSXOHS 30C U	House-side shield for P10, P11, P12 and P13 $^{\rm 22}$
DSXOHS 40C U	House-side shield for P5,P6 and P7 <sup>22</sup>
DSXODDL U	Diffused drop lens (polycarbonate) 22
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) <sup>25</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>12</sup>
DSXOEGS (FINISH) U	External glare shield

For more control options, visit DTL and ROAM online. Link to nLight Air 2

#### NOTES

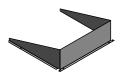
4

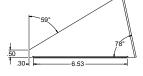
- TES HA not available with P4, P7, and P13. P10, P11, P12 and P13 and rotated options (L90 or R90) only available together. Any Type 5 distribution with photocell, is not available with WBA. Not available with HS or DDL MVQLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 1200, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVQLT not available with fusing (SF or DF). XVQLT only suitable for use with P4, P7 and P13. XVQLT only suitable for use with P4, P7 and P13. XVQLT only suitable for use with P4, P7 and P13. XVQLT available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIR1FC3V. Suitable for mounting to round poles between 3.5° and 12° diameter. Universal mounting brackets intended for retrefit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only 5 6 7
- 8 9
- 10 11
- Universal mounting brokens intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8. Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included). Must be ordered with PIRHN.

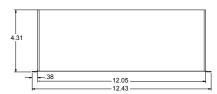
- Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors. Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. If ROAN® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included. DMG not available with PIRHN, PERS, PER7, PIR, PIRH, PIRTEC3V or PIRH1FC3V, FAO.
- 12 13 14 15 16 17 18 19 20 21 22 23 24 25

- DMG not available with PIRHN, PERS, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO. Reference Controls Options table on page 4. Reference Motion Sensor Default Table on page 4 to see functionality. Not available with other dimming controls options. Not available with BLC, LICCO and RCCO distribution. Must be ordered with fixture for factory pre-drilling. Requires luminaire to be specified with PER, PERS or PER7 option. See Controls Table on page 4. For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8

#### EGS – External Glare Shield

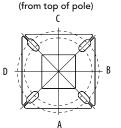




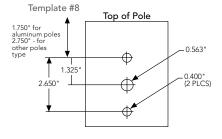


#### Drilling

HANDHOLE ORIENTATION



Handhole



#### **Tenon Mounting Slipfitter**

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

		•	<b>.</b>	L.		<b>*</b> *	
Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4@90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
			M	inimum Acceptable	Outside Pole Dimer	ision	
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

#### DSX0 Area Luminaire - EPA

\*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type	•	∎≁∎	L.		<b>↓</b>	
DSX0 LED	0.950	1.900	1.830	2.850	2.850	3.544



#### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40  $^\circ$  (32-104 F).

Ambi		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	77°C	1.00
30°C	86°F	0.99
35℃	95°F	0.98
40°C	104°F	0.97

Electrical L	oad						Curre	nt (A)		
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
Forward Optics (Non-Rotated)	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
Rotated Optics	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
(Requires L90 or R90)	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

#### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings											
Option	Dimmed State	High Level (when triggered)	Phototcell Operation	Dwell Time	Ramp-up Time	Ramp-down Time					
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min					
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min					

#### **Controls Options**

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.





**Specifications** 

Depth (D1):

Depth (D2):

Height:

Width:

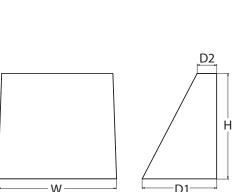
Weight:

(without options)

# WDGE1 LED Architectural Wall Sconce







Catalog Number

Notes

Туре

lit the Tab key or mouse over the page to see all interactive element

#### Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

#### **WDGE LED Family Overview**

5.5"

1.5"

8"

9"

9 lbs

Luminatur	Chan dand FM 08C	Cold EM, -20°C	Sensor	Lumens (4000K)							
Luminaire	Standard EM, 0°C			P1	P2	P3	P4	P5	P6		
WDGE1 LED	4W			1,200	2,000						
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000			
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000				
WDGE4 LED			Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000		

#### **Ordering Information**

#### EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P1 P2	27K         2700K           30K         3000K           35K         3500K           40K         4000K           50K <sup>1</sup> 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347²	Shipped included         SRM       Surface mounting bracket         ICW       Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) <sup>5</sup> Shipped separately         AWS       3/8inch Architectural wall spacer         PBBW       Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.

Options			Finish						
E4WH <sup>3</sup> PE <sup>4</sup> DS DMG BCE	Emergency battery backup, Certified in CA Title 20 MAEDBS (4V Photocell, Button Type Dual switching ( comes with 2 drivers and 2 light engines; see p 0–10V dimming wires pulled outside fixture (for use with an ex Bottom conduit entry for back box (PBBW). Total of 4 entry poir	bage 3 for details) ternal control, ordered separately)	DDBXD     Dark bronze       DBLXD     Black       DNAXD     Natural aluminum       DWHXD     White       DSSXD     Sandstone			DDBTXD DBLBXD DNATXD DWHGXD DSSTXD	Textured da Textured b Textured n Textured w Textured sa	lack atural hite	aluminum
WDGEAWS DE WDGE1PBBW					2 347V E4WI	not available in not available H, DS or PE. H not available DS.	with	4 5	PE not available with DS. Not qualified for DLC. Not available with E4WH.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2019-2021 Acuity Brands Lighting, Inc. All rights reserved.

#### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

	Performance System Dict Turne			27	K (2700K	, 80 C	RI)		30K (3000K, 80 CRI)				35K (3500K, 80 CRI)			40K (4000K, 80 CRI)					50K (5000K, 80 CRI)								
	Package Watts Dist. IS	Package	Dist. Type	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	
	D1	10₩	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0	
	P1 10W		1000	VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
	50	1514	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0	
	P2 15W	P2	IJW	VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

#### **Electrical Load**

Performance	Custom Matte	Current (A)								
Package	System Watts	120V	208V	240V	277V	347V				
D1	10W	0.082	0.049	0.043	0.038					
P1	13W					0.046				
P2	15W	0.132	0.081	0.072	0.064					
PZ	18W					0.056				

#### Lumen Multiplier for 90CRI

ССТ	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

#### Lumen Output in Emergency Mode (4000K, 80 CRI)

Option		
E4WH	VF	646
E4WH	VW	647

#### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Amt		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

#### **Projected LED Lumen Maintenance**

Data references the extrapolated performance projections for the platforms noted in a  $25^{\circ}$ C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91





SKU#: \_

#### \_\_\_\_\_ PROJECT NAME: \_

DATE:

#### 120~347VAC/0-10V Dimming

### ThinTek<sup>™</sup> Wafer S

- 3", 8W (500 lm) 4", 10W (650 lm) 4", 12W (850 lm) 6", 12W (900 lm) 6", 15W (1100 lm) 8", 18W (1500 lm)
- Projected L70: 50,000+ hours Warranty: 5 Years 0-10V Dimming (10%)





TITLE 24 Compliant







Air Tight

90025-H (25W High Voltage Emergency Battery Backup)

Accessories options are purchased separately.

3

0-10V

Dimming Dims to 10%

#### THINTEK<sup>™</sup> WAFER S **Direct Mount Recessed**

### DESCRIPTION

The ThinTek™ Wafer series from TGS allows for easy installation from below the ceiling without the need for an existing can and is ideal for shallow ceiling plenum applications. The CCT switch allows for selection between 2700K, 3000K, 3500K, 4000K, and 5000K. With Title 24 certification, 90 CRI, and a variety of sizes and lumen packages, ThinTek™ Wafers provide versatility, reliable performance, and a fast, simple installation process.

### **APPLICATIONS**

**FEATURES** 

Construction

Air-tight IC Rated.

**Optical System** 

Provides a 110° beam angle.

Dle-cast aluminum housing and PC lens.

Residential, Institution, Hospitality, Retail, Offices, Schools, Basement remodels, Kitchens and Hallways.



Electrical Input voltage: 120~347VAC, 60Hz 16W or 25W High Voltage Emergency Battery Backup option available. 12" Power Cable (Standard): Extension Cable option available in 3' or 10'.

#### Installation/Mounting

**Controls/Dimming** 

0-10V Dimming (Dims to 10%)

Recessed Mounting with adjustable spring loaded retention tabs for secure fixture.

#### Warranty

5 year warranty. See warranty documentation for more information.

Glare controlling lens for comfortable light distribution.





Tunable White between 2700K, 3000K, 3500K 4000K, 5000K.

### **Ordering Information**

#### EXAMPLE: TWSF-0308-C-U

Series	Size/Wattage	CCT Switchable	Input Voltage/Control
TWSF - ThinTek Wafer Square Flat	0308 - 3"/8W 0410 - 4"/10W 0412 - 4"/12W 0612 - 6"/12W 0615 - 6"/15W 0818 - 8"/18W	C - 2700K/3000K/3500K/4000K/5000K	U - 120~347VAC/ 0-10VDimming
	•	•	Accessories
			TW-EC03 (3' Extension Cable) TW-EC10 (10' Extension Cable)
			90016-H (16W High Voltage Emergency Battery Backup)

Specifications and Dimensions subject to change without notice.

\*MOQ and longer lead times may apply, please contact customer service for more information.

9601 Variel Ave I Chatsworth, CA 91311 I Ph: (818) 206-4404 I trulygreensolutions.com © 2021 Truly Green Solutions. All rights reserved.





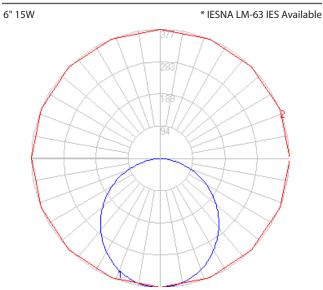
## THINTEK<sup>™</sup> WAFER S

# **Direct Mount Recessed**

#### **Performance Information**

Input Voltage	120~347VAC
Input Frequency	60Hz
Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	See Performance Table
CRI	>90
Available CCT	2700K, 3000K, 3500K, 4000K, 5000K
Projected L70	50,000+ hours
Power Factor	>0.9
THD	<20%
Dimming	0-10V Dimming (Dims To 10%)
Operating Temp.	32°~104°F

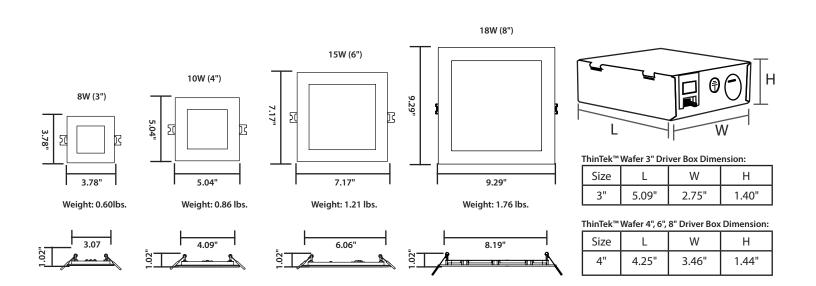
#### **Photometric Data**



#### **Performance Table**

			5000K		
SKU	Size (in)	Wattage (W)	Delivered Lumens (Im)	Efficacy (lm/W)	
TWSF-0308-C-U	3	8	500	63	
TWSF-0410-C-U	4	10	650	65	
TWSF-0412-C-U	4	12	850	71	
TWSF-0612-C-U	6	12	900	75	
TWSF-0615-C-U	6	15	1100	73	
TWSF-0818-C-U	8	18	1500	83	

### **Product Dimensions**



# ZENITH SM TBS LED

Architectural Outdoor

# ይ 🛞 🖻 🔨









#### **FEATURES**

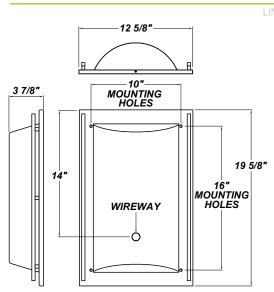
- ADA Compliant
- Aluminum Mounting Pan w/ High Reflectance White Powder Coat Finish
- Aluminum Trim w/ Matte Silver Powder Coat Finish

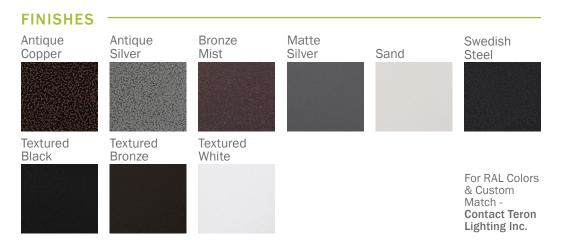
PROJECT: TYPE: PO#:

COMMENTS:

- CSA Listed Damp Location For Ceiling Mount
- CSA Listed Wet Location For Wall Mount
- Dimmable to <5%
- IES Files Available
- LED Light Fixture
- Mounts Direct to 4" Junction Box w/ 4 Wall Anchors (By Others) (Not Included)
- Surge Protector
- UL Class 2 ELV Driver Over-Voltage, Over-Current, and Short-Circuit Protection w/ Auto Recovery
- Vandal Resistant
- White 75% DR Acrylic Lens

### LINE DRAWING







 TERONLIGHTING.COM

 33 DONALD DR, FAIRFIELD, OH 45014

 P: 513.858.6004
 F: 513.858.6038

 E: SALES@TERONLIGHT.COM



We reserve the right to revise the design components of any product due to parts availability or change in UL standards, without assuming any obligation or liability to modify any products previously manufactured, and without notice. 1

QTY:

# ZENITH SM TBS LED

Architectural Outdoor

# £ @ 🗗 🔨

PROJECT:	
TYPE:	
PO#:	QTY:
COMMENTS:	

Fixture Core			
PRODUCT CODE	SOURCE/WATTAGE	VOLTAGE	DIMMING DRIVER
ZENS - Zenith SM	L16.2-TE500 - 16.2W @ 500mA ELV 2-Wire Dimmable Driver L24.3-TE875 - 24.3W @ 875mA ELV 2-Wire Dimmable Driver		Not Applicable
ORDER INFO			
ZENS	L16.2-TE500	120-277V	Not Applicable

#### Aesthetics & Options

		FINISH		COLOR TE	MP	OPTIONS		
TRIM TBS		AS - Antique BT - Bronze I SM - Matte S (Standard) SN - Sand SW - Swedis	AC - Antique Copper       BZ - Textured         AS - Antique Silver       Bronze         BT - Bronze Mist       TW - Textured         SM - Matte Silver       White         (Standard)       Featured		<b>40K</b> - 4000K Color Temp. <b>35K</b> - 3500K Color Temp. <b>30K</b> - 3000K Color Temp.		F - Fused MSI - Steinel HFLUM2-WR Internal Motion Sensor (120V / 277V Only) TP - Tamper Resistant Screws	
RDER INFO								
TBS		AC		40K		F		
Example ^	(may not represent	a manufacturable prod	duct)					
PROD	SOURCE	30K SPECS						
ZENS	L24.3 L16.2	<ul> <li>30K - 3000K Color Temp.</li> <li>3280 LED Source Lumens</li> <li>121 LED Source Lumens Per Wa</li> <li>30K - 3000K Color Temp.</li> <li>1944 LED Source Lumens</li> <li>121 LED Source Lumens Per Wa</li> </ul>	tt					

REPLACEMENT PART	PART NO	NOTES
White 75% DR Acrylic Lens	3048960	Don't see the configuration you are looking for? Call us today at (513) 858-6004



TERONLIGHTING.COM 33 DONALD DR, FAIRFIELD, OH 45014 P: 513.858.6004 F: 513.858.6038 E: SALES@TERONLIGHT.COM



We reserve the right to revise the design components of any product due to parts availability or change in UL standards, without assuming any obligation or liability to modify any products previously manufactured, and without notice.