

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P240469

Luminaire Tested: **UTLD-AF24-20-D-U-T4W-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T4W-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2112 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U2 - G2

Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

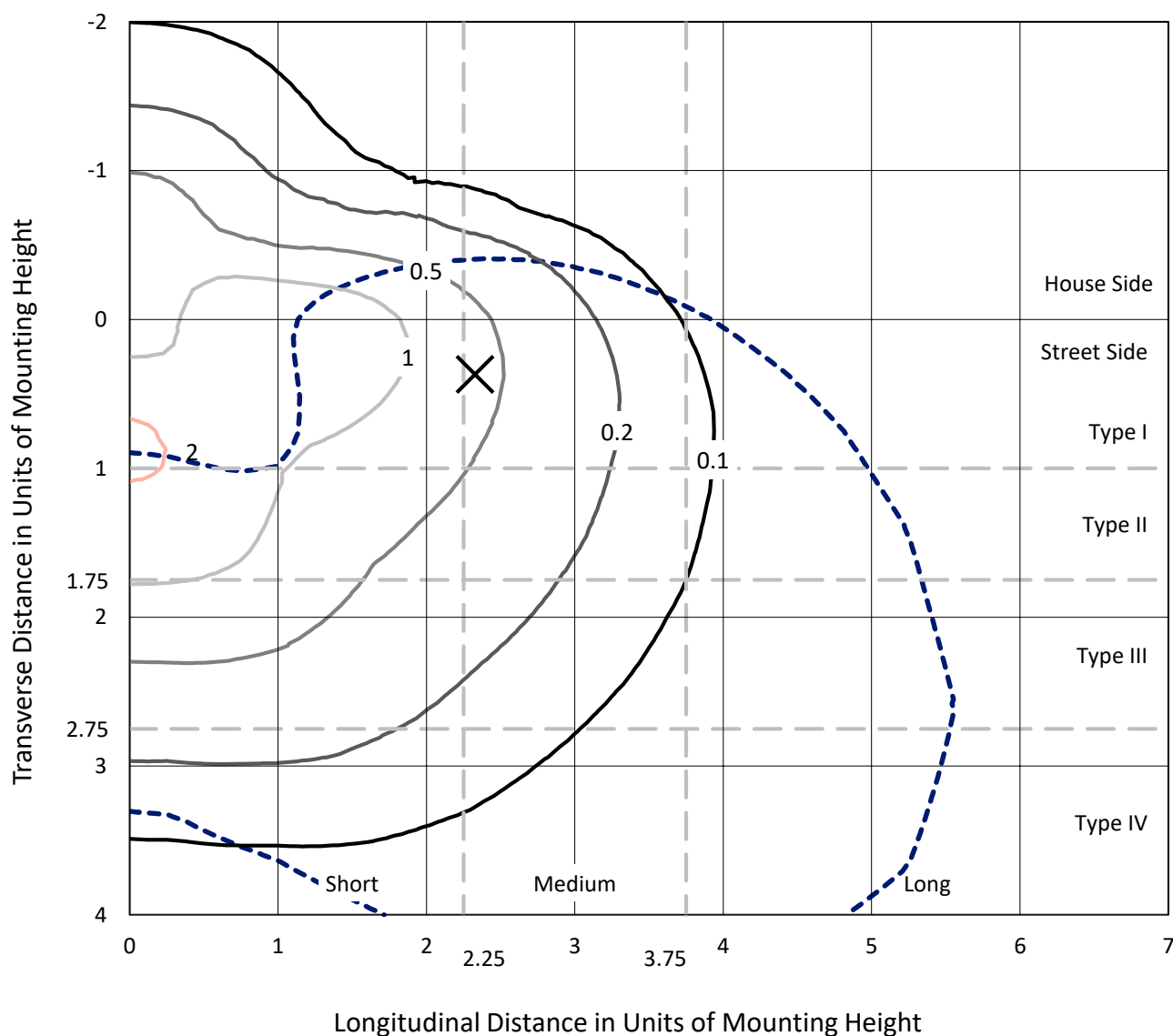


REPORT NUMBER: P240469

CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-TL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

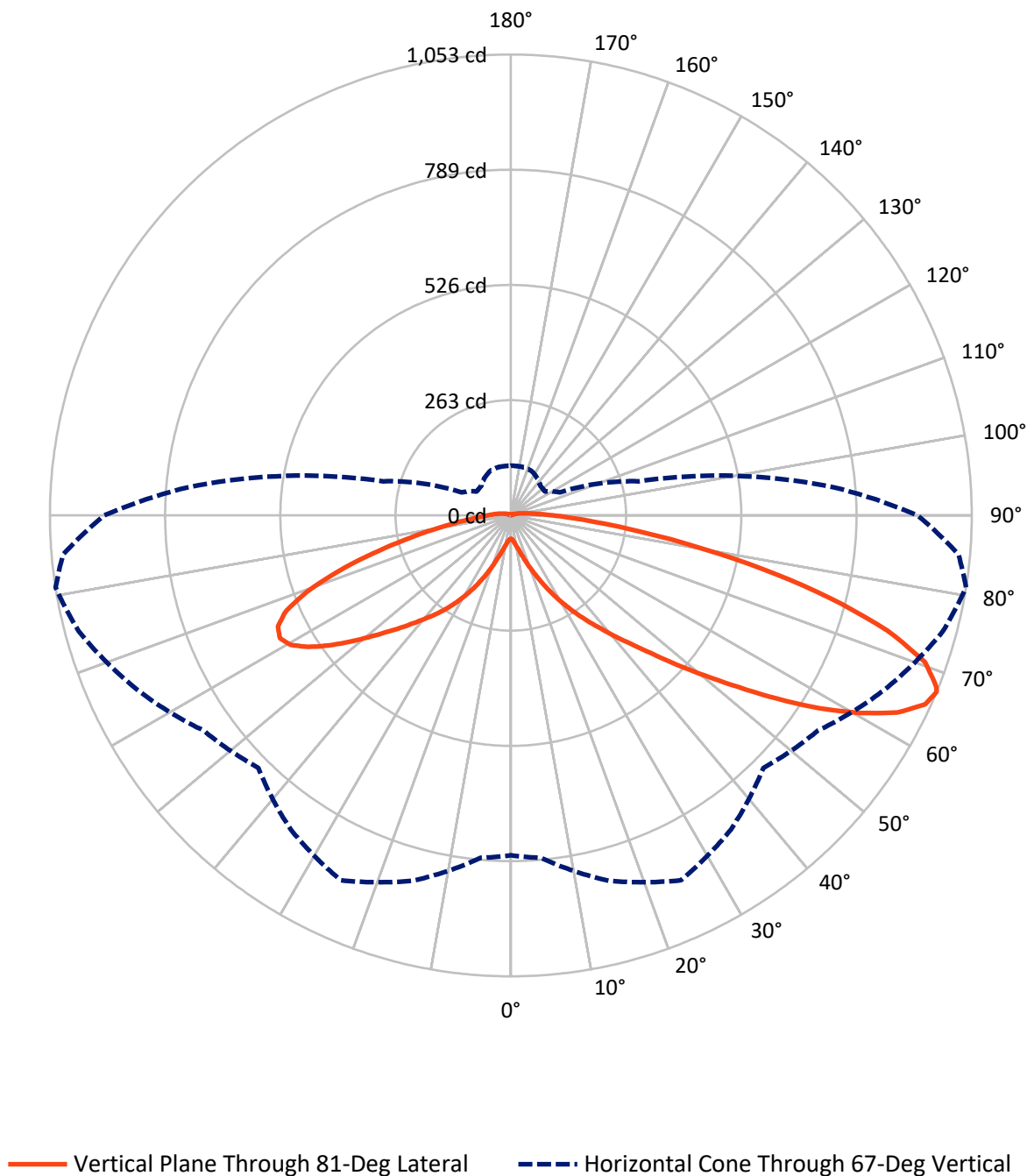


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240469

CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-TL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240469

CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-TL-7030

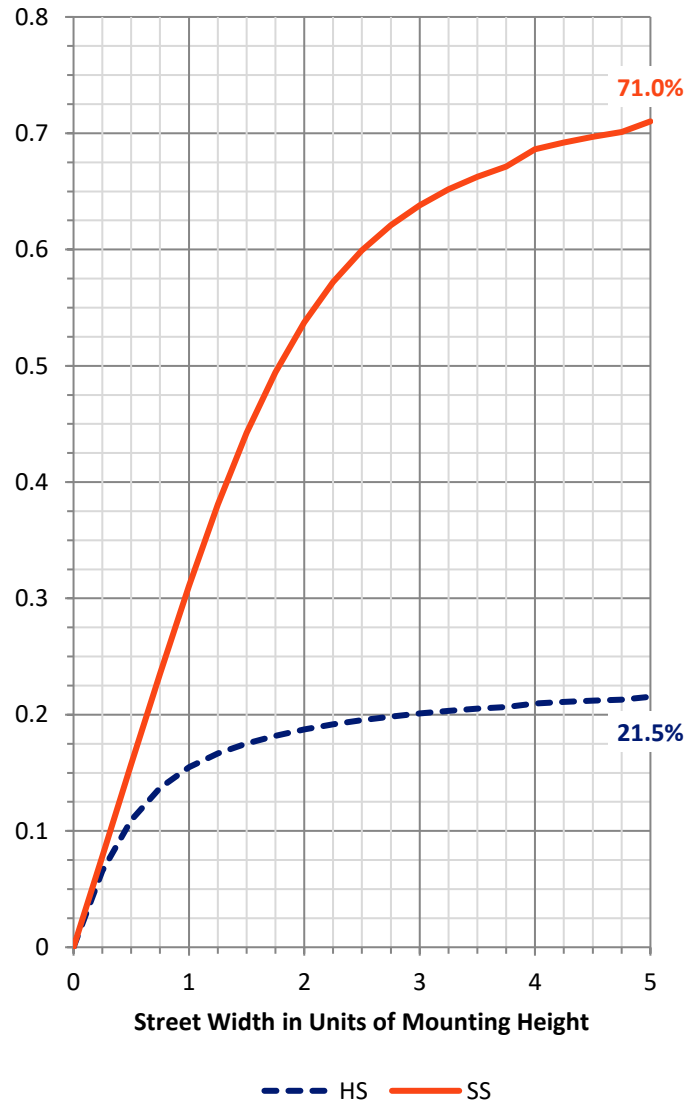
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	480.0	38.6	518.6
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	1549.3	44.1	1593.4
	% Fixture	73.4	2.1	75.4
Total	Lumens	2029.3	82.7	2112.0
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.3
10°-20°	26.7	1.3
20°-30°	72.0	3.4
30°-40°	144.6	6.8
40°-50°	244.3	11.6
50°-60°	390.7	18.5
60°-70°	533.8	25.3
70°-80°	440.0	20.8
80°-90°	171.3	8.1
90°-100°	49.3	2.3
100°-110°	18.9	0.9
110°-120°	8.2	0.4
120°-130°	3.9	0.2
130°-140°	1.8	0.1
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2029.3	96.1
0°-180°	2112.0	100.0

Coefficient of Utilization



REPORT NUMBER: P240469

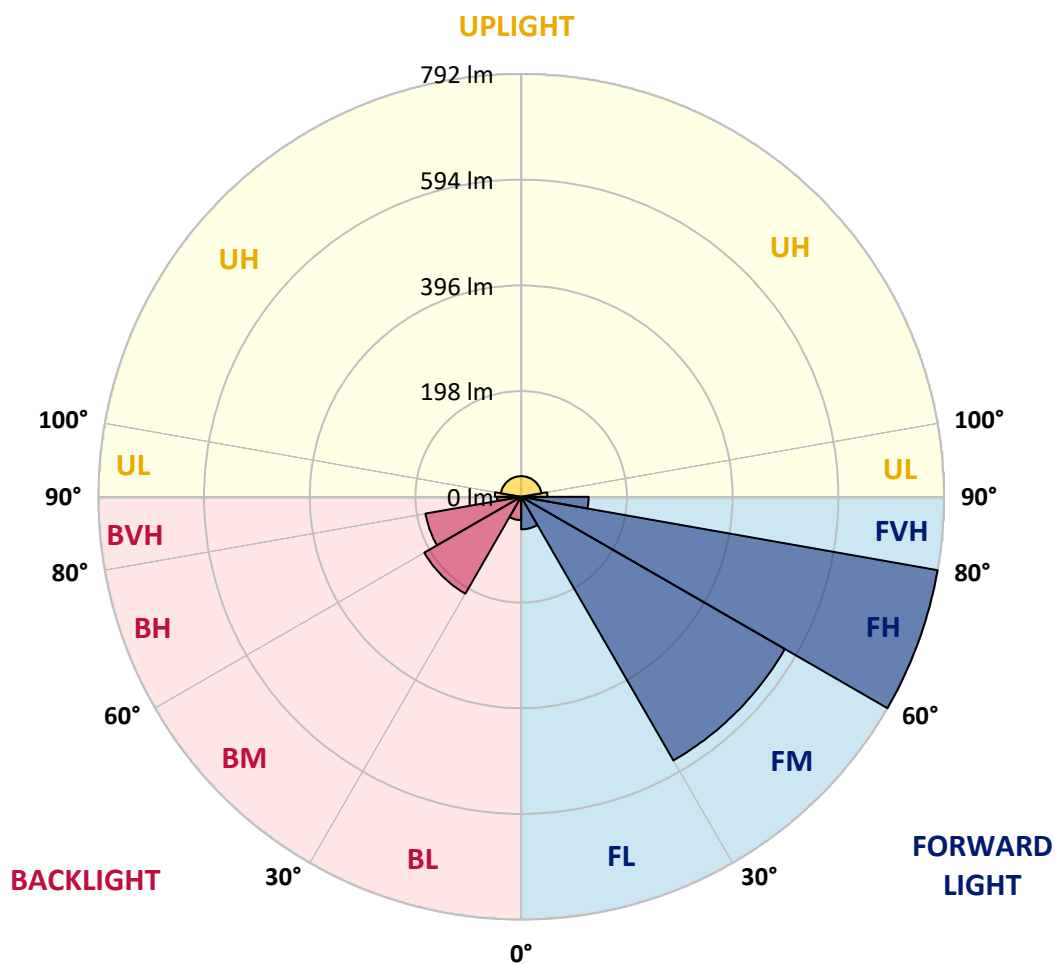
CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	61.0	2.9			
FM	(30°-60°)	570.2	27.0			
FH	(60°-80°)	791.9	37.5			G1/1800
FVH	(80°-90°)	126.2	6.0			G2/225
BL	(0°-30°)	43.6	2.1	B0/110		
BM	(30°-60°)	209.4	9.9	B0/220		
BH	(60°-80°)	181.9	8.6	B1/500		G1/500
BVH	(80°-90°)	45.1	2.1			G1/100
UL	(90°-100°)	49.3	2.3		U2/50	
UH	(100°-180°)	38.6	1.8		U2/50	

BUG Rating: B1-U2-G2

Type IV Medium





REPORT NUMBER: P240469

CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-TL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	57.8	57.8	57.8	57.5	57.3	56.7	56.2	55.6	55.4	55.0	54.8
5°	63.7	64.0	63.7	63.5	62.6	61.8	60.7	60.0	58.9	58.4	58.0
7.5°	72.5	72.5	72.3	70.9	70.2	68.9	67.5	65.9	64.8	64.0	63.0
10°	83.9	83.4	82.8	81.4	79.5	77.5	75.8	74.0	72.0	71.4	70.5
12.5°	97.4	97.4	95.9	94.1	90.5	88.4	85.8	83.6	81.7	80.7	80.1
15°	115.3	114.5	112.1	109.2	104.8	100.5	97.6	95.9	94.1	94.1	92.3
17.5°	133.7	134.4	130.7	126.0	120.1	114.7	111.3	111.0	110.3	109.7	109.4
20°	157.6	156.7	152.1	144.3	135.7	129.3	126.8	127.2	129.3	129.0	128.0
22.5°	183.3	183.3	176.4	165.8	153.7	146.0	143.5	146.0	150.6	150.6	151.1
25°	213.9	212.8	204.0	188.2	173.6	163.5	162.4	166.1	174.2	175.5	175.1
27.5°	248.3	244.6	233.0	213.4	194.4	182.8	181.0	187.9	199.0	202.6	204.0
30°	284.9	285.1	267.4	241.9	216.2	200.8	200.0	211.3	224.4	230.9	232.5
32.5°	327.1	325.8	305.4	273.3	240.1	220.1	219.4	234.9	251.7	259.9	261.0
35°	379.5	373.3	350.5	308.5	264.7	242.2	241.7	258.6	280.4	290.8	293.6
37.5°	427.6	424.5	398.4	345.2	293.1	264.5	263.5	285.5	311.3	323.4	327.1
40°	483.8	480.0	449.4	388.6	326.5	290.3	289.7	314.7	344.6	359.9	363.2
42.5°	538.9	536.6	503.4	437.0	362.0	319.4	318.3	347.3	382.5	399.7	403.7
45°	598.0	591.8	560.0	486.5	401.5	352.9	353.5	384.9	428.6	448.6	452.7
47.5°	648.6	644.8	618.0	540.0	445.1	389.5	390.3	432.2	485.2	508.6	510.5
50°	703.7	701.6	674.9	596.8	497.5	435.0	436.3	483.6	547.5	574.3	583.8
52.5°	749.4	749.6	729.6	655.0	549.1	483.8	487.9	544.8	615.2	651.3	656.9
55°	794.0	792.6	780.8	719.0	610.4	538.6	543.2	612.6	696.2	739.6	747.3
57.5°	826.3	829.9	831.1	780.3	669.9	593.9	608.8	683.0	784.4	831.1	837.8
60°	848.6	850.2	869.0	841.9	734.1	658.9	678.4	761.2	867.2	916.3	920.6
62.5°	846.4	853.5	890.0	888.1	796.4	720.7	745.7	834.6	939.2	991.3	992.1
65°	817.7	829.3	890.6	917.4	848.1	779.2	811.5	900.8	998.3	1039.7	1029.0
67°	776.1	784.9	863.7	919.3	876.0	815.5	856.4	941.6	1021.7	1052.6	1026.5
67.5°	758.6	774.4	853.8	917.4	879.0	823.4	863.7	952.3	1026.5	1048.6	1020.6
70°	674.4	686.8	775.7	879.0	880.1	847.0	893.7	965.2	1008.3	1003.4	952.8
72.5°	560.4	566.1	663.6	794.4	839.7	837.6	884.9	931.9	931.3	899.4	838.1
75°	424.7	439.8	527.6	666.9	755.6	785.1	828.1	843.7	806.7	752.9	678.7
77.5°	299.7	307.4	385.1	524.5	638.6	693.8	724.2	716.8	648.6	585.2	518.0
80°	194.1	201.6	255.1	375.8	500.7	559.6	587.3	565.9	497.0	422.5	366.1
82.5°	117.5	123.9	161.6	252.2	367.9	433.9	447.9	427.1	350.5	288.7	244.3
85°	68.9	74.0	100.3	162.6	250.7	313.1	318.3	294.6	235.5	193.0	162.9
87.5°	41.9	44.6	63.5	104.1	166.4	211.3	221.8	199.7	158.7	129.0	109.7
90°	27.1	29.1	40.5	68.3	109.2	139.6	146.0	133.3	107.5	87.9	75.5
92.5°	18.6	20.4	28.2	45.7	71.8	92.5	96.4	87.6	72.3	61.8	55.0
95°	14.2	15.1	21.6	32.2	48.9	61.8	65.5	59.6	50.6	45.5	41.4
97.5°	11.6	12.1	17.2	25.0	35.5	44.4	46.0	41.6	37.3	34.1	32.2
100°	10.0	10.2	14.5	20.4	27.7	33.7	34.4	31.1	28.2	26.7	25.0
102.5°	8.8	9.2	12.7	17.5	22.6	26.7	26.7	24.1	21.6	20.4	19.6
105°	7.7	8.0	11.3	15.1	19.3	21.8	21.8	19.1	16.7	15.7	15.3
107.5°	7.0	7.2	9.8	13.2	16.4	18.2	18.0	15.3	12.7	11.6	11.6



REPORT NUMBER: P240469

CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	6.4	6.4	8.6	11.6	13.9	15.7	14.7	12.3	9.8	8.8	9.2
112.5°	5.9	5.9	7.5	10.0	12.3	13.4	12.3	10.2	7.5	7.0	7.2
115°	5.7	5.7	6.8	8.8	10.7	11.3	10.5	8.3	6.2	5.7	5.9
117.5°	5.1	5.1	6.2	7.7	9.2	9.8	8.8	6.8	5.1	4.8	5.1
120°	4.8	4.8	5.4	6.8	8.0	8.3	7.5	5.7	4.3	4.3	4.6
122.5°	4.6	4.6	5.1	5.9	7.0	7.2	6.4	4.6	3.8	3.8	4.1
125°	4.6	4.6	4.6	5.4	5.9	6.2	5.4	4.1	3.5	3.5	3.8
127.5°	4.3	4.3	4.3	4.6	5.1	5.1	4.6	3.3	2.9	3.3	3.3
130°	4.1	4.1	4.1	4.3	4.6	4.3	3.8	2.7	2.7	2.9	2.9
132.5°	3.8	3.8	3.8	3.8	3.8	3.5	2.9	2.4	2.4	2.7	2.7
135°	3.5	3.5	3.5	3.3	3.3	2.9	2.4	1.8	2.1	2.4	2.4
137.5°	3.3	3.3	3.3	2.9	2.7	2.1	1.6	1.6	1.8	2.1	2.1
140°	2.9	2.9	2.7	2.4	2.1	1.6	1.1	1.3	1.6	1.6	1.8
142.5°	2.4	2.4	2.4	1.8	1.3	1.1	0.8	0.8	1.3	1.3	1.3
145°	2.1	2.1	1.8	1.6	1.1	0.5	0.2	0.5	0.8	1.1	1.1
147.5°	1.6	1.6	1.6	1.1	0.5	0.2	0.2	0.2	0.5	0.8	0.8
150°	1.3	1.3	1.1	0.8	0.2	0.0	0.0	0.2	0.5	0.5	0.5
152.5°	0.8	0.8	0.8	0.5	0.0	0.0	0.0	0.2	0.2	0.2	0.2
155°	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2
157.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P240469

CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	54.5	54.3	54.0	53.5	53.2	52.7	52.1	51.9	51.6	51.6	51.6
5°	57.5	57.3	56.5	55.4	54.5	53.7	53.2	52.7	52.1	52.1	52.1
7.5°	62.4	61.8	60.2	59.1	57.8	56.7	55.9	55.0	54.8	54.8	54.5
10°	69.4	68.5	66.6	64.5	62.6	61.3	60.2	59.4	59.1	59.1	59.1
12.5°	78.4	77.5	74.4	71.8	68.9	66.9	65.5	65.3	65.5	65.5	65.3
15°	91.7	89.5	84.9	80.7	76.1	73.1	72.3	72.3	73.6	74.2	74.4
17.5°	107.5	104.8	98.7	91.7	84.6	80.7	80.1	81.7	84.6	86.0	85.8
20°	127.2	123.4	114.7	104.4	94.6	89.5	88.9	91.9	95.9	98.7	98.4
22.5°	149.1	145.7	132.8	117.5	104.1	98.2	97.4	102.1	108.0	111.0	112.1
25°	173.6	168.8	151.9	130.9	113.9	105.7	105.3	111.3	119.1	124.4	125.2
27.5°	200.3	194.6	172.3	144.3	122.6	111.8	111.6	119.6	130.3	137.1	137.3
30°	229.6	220.9	192.4	155.5	129.0	116.2	116.7	126.0	139.8	147.6	148.9
32.5°	258.6	248.9	210.8	166.6	133.3	118.2	119.1	130.9	146.0	155.9	157.0
35°	289.2	276.9	229.0	173.9	135.7	118.5	119.3	132.8	149.1	159.9	161.0
37.5°	320.1	305.4	244.3	179.3	135.7	116.9	118.0	132.2	148.9	159.9	160.7
40°	356.7	335.2	258.8	181.5	133.7	113.9	115.3	129.3	144.9	155.1	155.9
42.5°	394.7	368.8	272.6	181.0	129.8	110.3	111.6	124.4	138.2	146.5	147.3
45°	440.4	408.8	286.6	179.3	125.2	106.2	107.0	118.5	130.1	136.0	137.1
47.5°	496.5	451.9	300.8	176.4	120.1	102.3	102.9	113.2	121.5	125.2	126.0
50°	558.9	502.7	316.5	172.3	115.3	98.9	99.8	108.0	113.9	115.6	115.9
52.5°	632.7	560.2	330.8	167.5	111.0	96.2	97.4	104.8	108.8	109.2	109.4
55°	712.6	623.1	343.8	161.6	106.7	94.4	96.4	103.5	106.2	105.9	106.2
57.5°	796.0	683.5	352.7	155.3	103.2	93.3	96.8	103.5	106.2	105.7	106.2
60°	870.4	735.5	354.0	147.3	100.5	93.3	98.4	105.3	107.8	107.8	108.2
62.5°	923.4	765.3	345.2	139.2	98.2	93.9	100.5	107.8	110.3	110.3	110.8
65°	944.9	764.7	325.8	130.7	96.2	94.6	102.7	110.5	112.3	112.3	112.9
67°	928.7	739.6	300.8	124.2	95.2	95.4	104.4	112.1	113.7	113.4	113.7
67.5°	918.8	730.8	295.4	122.3	94.8	95.4	104.6	112.3	113.9	113.7	113.7
70°	836.5	655.3	258.3	114.2	93.0	95.4	105.7	112.9	113.9	113.4	113.4
72.5°	709.3	548.4	216.7	106.2	90.9	94.6	105.1	112.1	112.6	111.8	111.8
75°	564.3	429.0	178.0	99.2	87.9	92.8	103.2	109.7	110.5	109.7	108.8
77.5°	417.7	317.7	143.7	91.7	84.3	89.8	100.0	106.2	107.0	106.2	105.3
80°	291.4	225.8	115.9	84.1	79.9	85.4	95.4	100.8	101.8	101.3	100.0
82.5°	194.9	155.1	92.8	75.8	74.0	79.9	89.3	94.1	94.8	94.4	92.8
85°	133.1	108.0	76.6	66.9	67.5	73.1	81.2	84.9	85.8	84.9	83.4
87.5°	89.5	77.5	62.6	58.4	60.0	65.3	71.8	73.6	75.3	74.0	72.8
90°	64.8	58.4	50.6	49.7	52.5	57.1	61.3	61.5	63.7	63.2	60.9
92.5°	48.6	45.7	41.9	41.9	44.9	48.6	51.4	50.8	52.1	52.1	50.6
95°	38.5	36.8	35.0	35.7	38.5	41.1	41.9	40.9	42.2	42.5	41.9
97.5°	30.9	30.4	29.8	30.4	32.8	35.0	34.6	32.8	33.9	34.4	33.9
100°	25.0	24.7	25.0	26.1	28.0	29.3	28.5	26.7	27.5	27.5	27.5
102.5°	20.2	20.2	21.0	22.1	23.4	24.5	23.4	21.8	22.1	21.8	21.8
105°	15.9	16.2	17.2	18.6	19.6	20.2	19.1	17.5	17.2	16.4	16.7
107.5°	12.3	12.9	13.9	15.3	16.4	16.7	15.9	14.2	13.2	12.7	12.7



REPORT NUMBER: P240469

CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.8	10.2	11.6	12.7	13.4	13.6	12.9	11.3	10.0	9.8	9.8
112.5°	7.7	8.3	9.4	10.5	11.3	11.3	10.5	9.2	7.5	7.2	7.2
115°	6.4	6.8	7.7	8.6	9.4	9.4	8.6	7.2	5.9	5.7	5.9
117.5°	5.4	5.7	6.4	7.2	7.7	7.7	7.0	5.7	4.6	4.6	4.6
120°	4.8	5.1	5.7	6.2	6.4	6.4	5.9	4.6	3.8	3.8	3.8
122.5°	4.3	4.3	4.8	5.1	5.7	5.4	4.8	3.8	2.9	3.3	3.3
125°	3.8	4.1	4.1	4.6	4.6	4.6	3.8	2.9	2.7	2.7	2.7
127.5°	3.5	3.5	3.8	3.8	4.1	3.8	2.9	2.1	2.1	2.4	2.4
130°	3.3	3.3	3.3	3.3	3.3	2.9	2.4	1.8	1.8	2.1	2.1
132.5°	2.7	2.9	2.9	2.7	2.7	2.4	1.8	1.3	1.6	1.6	1.6
135°	2.4	2.7	2.4	2.4	2.1	1.8	1.3	1.1	1.3	1.3	1.3
137.5°	2.1	2.1	2.1	1.8	1.6	1.3	1.1	0.8	1.1	1.1	1.1
140°	1.8	1.8	1.8	1.6	1.3	1.1	0.5	0.5	0.8	0.8	0.8
142.5°	1.3	1.6	1.3	1.1	0.8	0.5	0.2	0.2	0.5	0.8	0.5
145°	1.1	1.1	1.1	0.8	0.5	0.2	0.0	0.0	0.2	0.2	0.2
147.5°	0.8	0.8	0.8	0.5	0.2	0.2	0.0	0.0	0.0	0.2	0.2
150°	0.5	0.5	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)