

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: P240424

Luminaire Tested: **UTLD-AF24-20-D-U-T3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
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-T3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2251.5 lumens
Efficiency: N/A
Efficacy: 107.2 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

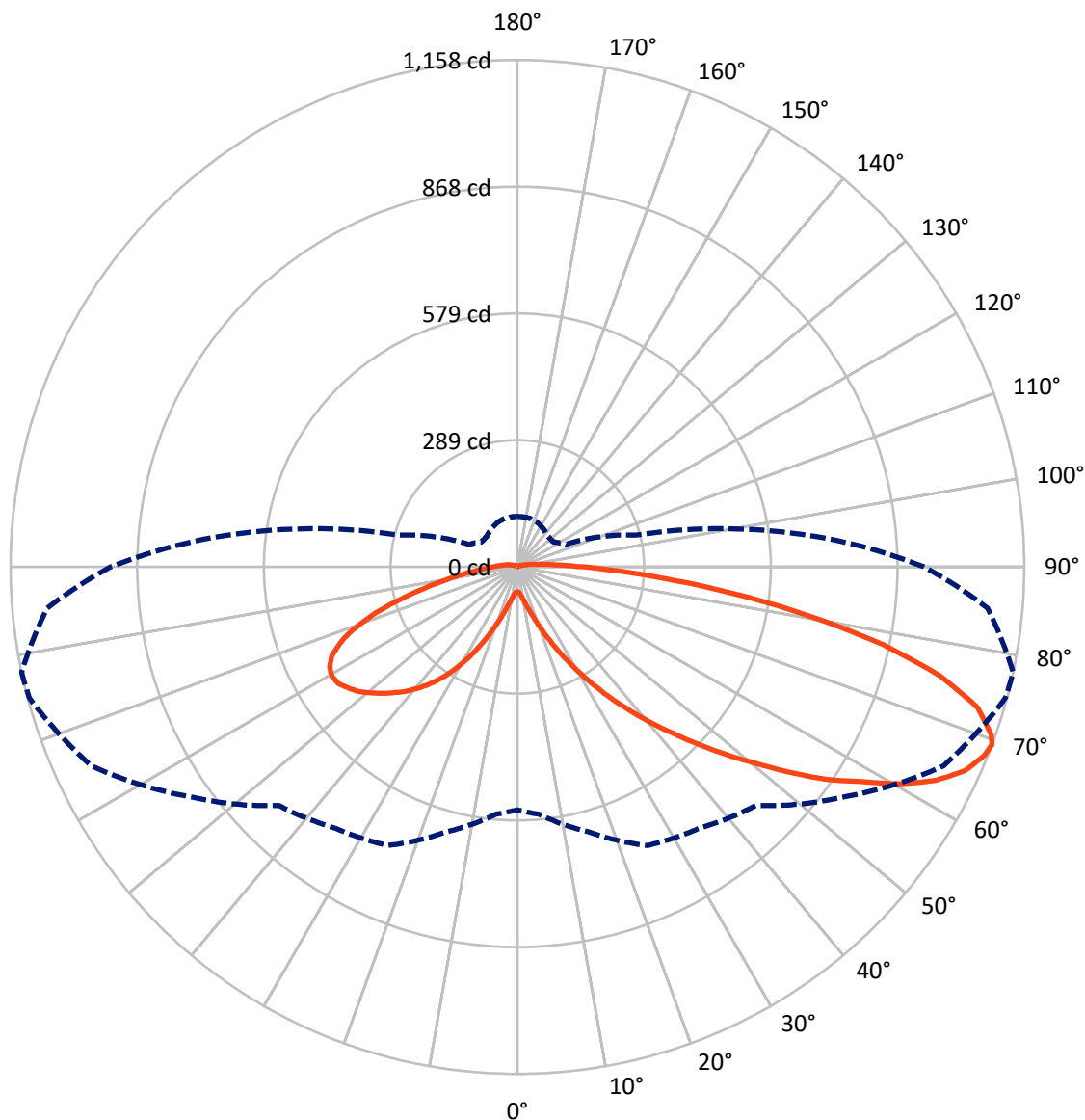
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P240424

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P240424

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL

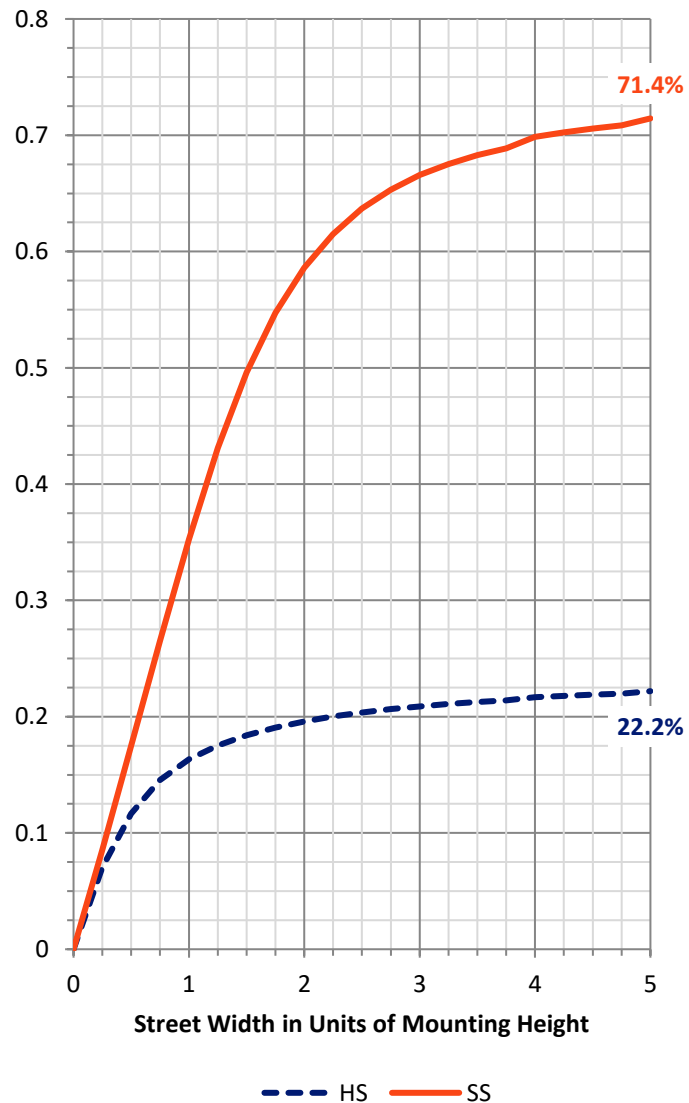
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.0	39.3	562.3
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	1646.0	43.2	1689.2
	% Fixture	73.1	1.9	75.0
Total	Lumens	2169.0	82.5	2251.5
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.3
10°-20°	28.9	1.3
20°-30°	82.5	3.7
30°-40°	175.3	7.8
40°-50°	303.9	13.5
50°-60°	455.0	20.2
60°-70°	541.6	24.1
70°-80°	413.1	18.3
80°-90°	162.3	7.2
90°-100°	47.6	2.1
100°-110°	19.3	0.9
110°-120°	8.7	0.4
120°-130°	4.2	0.2
130°-140°	2.0	0.1
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2169.0	96.3
0°-180°	2251.5	100.0

Coefficient of Utilization



REPORT NUMBER: P240424

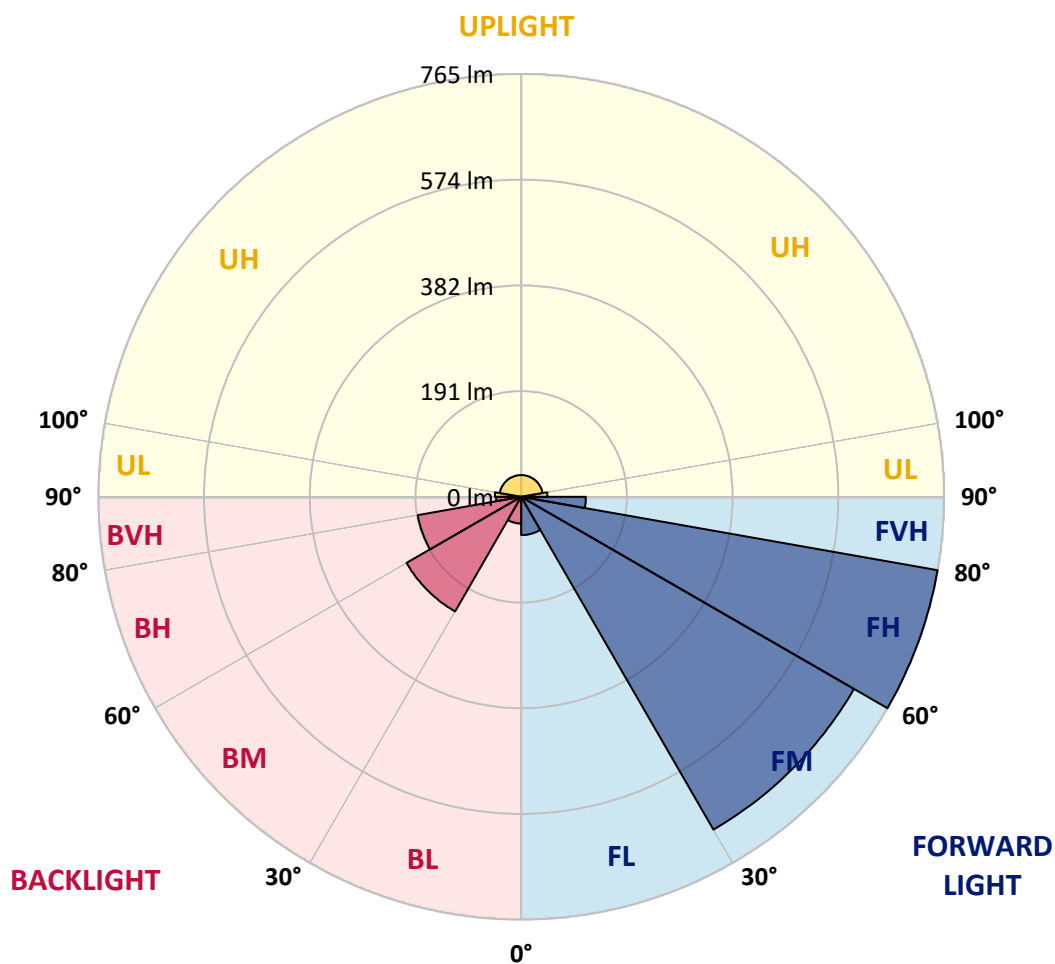
CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	69.3	3.1			
FM	(30°-60°)	695.0	30.9			
FH	(60°-80°)	764.8	34.0			G1/1800
FVH	(80°-90°)	116.9	5.2			G2/225
BL	(0°-30°)	48.4	2.1	B0/110		
BM	(30°-60°)	239.3	10.6	B1/1000		
BH	(60°-80°)	190.0	8.4	B1/500		G1/500
BVH	(80°-90°)	45.4	2.0			G1/100
UL	(90°-100°)	47.6	2.1		U2/50	
UH	(100°-180°)	39.3	1.7		U2/50	

BUG Rating: B1-U2-G2

Type IV Medium





REPORT NUMBER: P240424

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
2.5°	61.1	61.1	60.9	60.9	60.6	59.9	59.1	58.5	58.3	58.3	57.7
5°	67.9	67.9	67.4	67.4	66.5	65.7	64.5	63.1	62.3	62.0	61.1
7.5°	77.0	76.7	76.4	75.6	74.8	73.0	71.6	70.2	68.5	68.2	67.1
10°	88.7	88.1	88.1	87.0	85.3	83.3	80.7	78.8	77.0	76.7	75.6
12.5°	104.0	103.4	102.6	100.4	97.8	94.6	92.4	90.4	88.7	88.1	86.7
15°	122.2	121.9	119.7	116.8	112.3	108.3	105.8	104.0	103.4	102.9	101.5
17.5°	145.0	143.5	141.3	135.5	129.6	124.0	121.6	121.9	122.2	122.2	121.1
20°	170.2	169.7	166.3	158.7	150.4	143.2	141.3	143.0	145.3	145.3	145.0
22.5°	203.6	201.8	195.6	184.7	173.1	166.0	163.2	166.8	173.1	173.4	174.5
25°	239.9	239.4	229.3	213.5	198.7	190.2	188.2	192.7	204.1	204.9	208.1
27.5°	280.3	278.9	269.8	247.2	228.0	215.4	214.6	224.5	236.8	241.0	245.6
30°	329.2	327.8	310.4	284.6	261.0	244.5	244.7	257.6	276.3	280.0	286.5
32.5°	379.7	378.3	360.4	328.1	296.8	276.3	276.8	295.9	317.5	322.0	329.2
35°	438.0	437.4	413.9	374.1	334.6	309.9	314.0	334.3	361.0	368.4	374.6
37.5°	501.1	494.9	471.9	425.5	376.0	349.0	352.2	379.2	410.7	414.2	420.4
40°	564.6	563.1	535.5	483.5	423.8	390.3	394.6	424.9	459.1	465.3	468.7
42.5°	631.4	630.8	598.3	541.4	473.3	435.8	439.8	474.4	512.5	518.4	520.2
45°	702.4	698.4	666.2	602.6	530.4	484.1	491.2	527.0	571.9	576.7	577.6
47.5°	763.5	758.4	734.2	668.0	586.2	536.3	541.8	586.5	633.6	638.7	636.7
50°	818.7	816.4	792.0	733.4	647.2	589.2	596.9	645.5	698.7	704.9	703.0
52.5°	854.8	853.3	843.3	786.9	700.9	643.2	654.1	707.0	769.8	778.9	768.3
55°	872.7	872.7	874.6	833.7	750.1	694.4	711.2	775.2	843.6	856.4	841.7
57.5°	871.2	869.5	886.0	865.8	788.0	735.6	768.3	847.6	919.5	924.6	917.0
60°	838.8	844.2	873.2	876.9	815.0	772.3	822.9	914.7	992.1	1005.7	982.3
62.5°	787.1	797.3	839.6	864.1	822.4	798.4	869.8	973.5	1059.4	1073.3	1040.0
65°	715.8	726.3	778.3	825.4	807.5	807.3	901.9	1027.2	1113.1	1123.1	1078.4
67.5°	626.3	629.6	689.6	757.5	765.8	793.9	917.3	1064.3	1152.0	1150.4	1092.1
69°	554.8	567.1	626.3	702.1	727.7	770.6	914.4	1074.5	1154.3	1157.8	1078.4
70°	518.7	521.0	579.3	656.3	700.9	749.6	904.8	1072.2	1150.6	1148.1	1062.8
72.5°	402.7	407.3	460.7	544.6	606.3	679.6	857.3	1033.8	1106.0	1099.5	982.3
75°	287.3	295.0	344.2	423.0	496.0	588.4	769.8	951.3	1014.3	999.1	866.6
77.5°	196.1	204.1	240.8	312.9	385.8	486.3	649.3	826.6	869.8	854.2	708.4
80°	125.9	131.3	160.3	217.5	286.8	373.5	517.1	662.3	700.7	672.8	541.4
82.5°	83.3	86.7	106.9	147.2	200.7	275.5	383.5	494.9	511.9	494.3	379.5
85°	56.3	58.5	73.0	100.0	140.7	193.8	271.5	344.2	358.1	333.7	253.0
87.5°	38.7	40.9	52.6	70.0	97.8	135.3	181.9	231.4	227.1	215.7	165.1
90°	27.6	29.6	37.8	49.7	69.0	94.1	121.4	146.4	145.8	134.7	105.5
92.5°	19.9	21.6	28.7	37.2	51.1	66.0	81.8	92.1	92.1	87.6	70.0
95°	15.0	16.2	21.9	28.4	38.4	48.9	57.2	62.5	61.4	58.0	50.6
97.5°	12.0	12.8	17.4	23.0	30.4	37.8	42.7	43.2	42.4	41.2	37.5
100°	9.9	10.5	14.5	19.3	25.3	30.7	32.9	32.1	31.0	30.7	28.7
102.5°	8.5	8.8	12.5	16.8	21.6	25.6	26.4	25.1	23.6	23.3	22.5
105°	7.7	7.7	10.8	14.5	18.5	21.3	21.9	20.2	18.2	17.6	17.4
107.5°	6.9	7.1	9.4	12.8	16.0	18.2	18.2	16.2	13.9	13.4	13.4



REPORT NUMBER: P240424

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	6.2	6.2	8.3	11.4	13.9	15.7	15.3	13.1	10.8	10.2	10.5
112.5°	5.7	5.7	7.4	9.9	12.2	13.4	12.8	10.5	8.5	8.3	8.3
115°	5.4	5.4	6.5	8.8	10.5	11.4	10.8	8.5	6.9	6.5	6.9
117.5°	4.8	5.1	5.9	7.7	9.1	9.9	9.1	7.1	5.7	5.4	5.9
120°	4.5	4.8	5.4	6.5	8.0	8.5	7.4	5.9	4.8	4.8	5.1
122.5°	4.3	4.5	4.8	5.9	6.9	7.1	6.2	4.8	4.0	4.3	4.5
125°	4.3	4.3	4.5	5.1	5.9	5.9	5.1	4.0	3.7	3.7	4.0
127.5°	4.0	4.0	4.0	4.5	5.1	5.1	4.3	3.4	3.2	3.4	3.7
130°	3.7	3.7	3.7	4.0	4.3	4.3	3.7	2.9	2.9	2.9	3.2
132.5°	3.4	3.4	3.4	3.4	3.7	3.4	2.9	2.3	2.6	2.6	2.9
135°	3.2	3.2	3.2	3.2	2.9	2.6	1.9	1.9	2.3	2.3	2.6
137.5°	2.9	2.9	2.9	2.6	2.3	1.9	1.7	1.7	1.9	1.9	2.3
140°	2.6	2.6	2.6	1.9	1.7	1.4	1.1	1.1	1.7	1.7	1.7
142.5°	2.3	2.3	1.9	1.7	1.4	0.8	0.6	0.8	1.1	1.1	1.4
145°	1.7	1.7	1.7	1.4	0.8	0.6	0.3	0.6	0.8	0.8	1.1
147.5°	1.4	1.4	1.4	1.1	0.6	0.3	0.3	0.3	0.6	0.6	0.8
150°	1.1	1.1	0.8	0.8	0.3	0.0	0.0	0.3	0.3	0.6	0.6
152.5°	0.8	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.3	0.3	0.3
155°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.3	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: P240424

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
2.5°	57.4	57.2	56.9	56.3	56.0	55.4	54.8	54.3	54.3	54.3	54.0
5°	60.9	60.3	59.4	58.3	57.4	56.6	55.8	54.8	54.6	54.3	54.3
7.5°	66.2	65.7	63.9	62.5	60.9	59.7	58.3	57.7	57.2	56.9	56.9
10°	74.5	73.3	71.1	68.7	66.8	64.5	63.1	62.3	61.4	61.1	61.4
12.5°	85.5	83.6	80.7	77.3	73.9	71.1	69.4	68.5	68.2	67.9	67.9
15°	100.9	99.5	93.8	87.9	83.0	79.0	76.7	75.9	77.6	78.2	78.2
17.5°	120.8	118.3	111.4	103.2	93.2	87.3	85.5	87.0	88.4	90.1	90.4
20°	145.6	141.3	132.5	119.1	105.8	97.2	95.7	97.5	100.9	103.2	103.4
22.5°	172.6	169.7	156.1	136.2	118.3	108.3	105.2	107.7	113.1	116.2	116.5
25°	207.2	202.6	182.2	154.9	131.3	117.4	113.6	117.4	124.0	128.8	129.1
27.5°	245.0	237.9	211.2	173.7	142.4	125.1	120.5	125.3	134.2	139.8	140.5
30°	284.3	274.3	239.9	191.3	152.3	130.2	125.3	131.3	141.3	147.8	148.6
32.5°	325.5	313.5	266.4	206.6	158.9	133.0	127.9	135.0	145.6	152.3	153.2
35°	367.5	352.5	291.0	217.8	162.0	133.6	128.2	136.2	146.4	153.5	154.4
37.5°	411.8	389.7	312.7	225.5	162.5	131.9	127.1	135.0	144.6	151.2	151.8
40°	454.8	426.1	330.8	228.8	160.6	129.3	124.2	132.5	140.7	145.6	146.1
42.5°	502.0	465.3	346.8	228.8	156.6	126.2	121.1	128.8	135.3	138.7	139.0
45°	550.0	504.5	359.3	226.0	151.5	122.2	117.9	124.8	129.9	131.3	131.3
47.5°	605.5	545.7	370.9	221.2	145.8	118.3	114.9	121.1	124.8	124.8	125.1
50°	661.1	589.0	379.7	214.3	139.3	114.9	112.3	118.3	121.1	119.4	119.4
52.5°	721.4	633.3	388.0	205.5	133.3	111.7	110.6	116.8	118.9	116.2	115.7
55°	782.3	675.0	389.7	194.5	126.5	109.1	109.8	115.7	117.6	114.9	114.6
57.5°	847.3	718.0	389.4	181.7	120.5	107.2	108.8	115.4	117.4	114.6	114.3
60°	897.6	751.9	380.3	168.3	115.1	105.2	108.5	115.1	117.4	115.1	115.1
62.5°	943.2	771.7	363.2	154.1	110.0	103.7	107.7	114.6	116.8	115.7	115.7
65°	963.9	777.4	337.2	140.1	105.8	102.1	107.2	113.6	116.2	116.0	116.2
67.5°	951.1	750.9	302.5	127.7	101.8	100.0	105.8	112.3	115.1	115.7	116.0
69°	928.9	721.4	280.8	121.1	99.5	98.6	104.6	110.9	114.3	115.1	115.1
70°	909.3	696.1	262.9	117.1	97.8	97.8	104.0	110.0	113.4	114.3	114.6
72.5°	814.4	613.7	222.3	106.6	94.1	94.9	101.2	107.2	110.9	111.7	111.7
75°	697.9	503.4	181.1	97.8	89.8	91.9	97.8	103.4	106.9	107.7	107.4
77.5°	555.7	390.3	147.0	90.1	85.0	87.0	93.2	98.6	102.1	102.6	101.5
80°	414.7	284.6	119.1	82.1	79.3	81.8	87.6	92.1	95.5	95.7	94.1
82.5°	287.3	205.5	97.0	74.5	73.0	75.1	80.2	84.2	87.3	86.4	85.5
85°	191.6	141.0	79.3	66.0	66.0	68.2	71.9	74.5	77.6	76.4	74.8
87.5°	126.2	97.2	65.1	57.7	58.3	60.3	63.1	63.9	66.8	66.0	63.9
90°	85.5	70.0	53.4	49.7	50.6	52.6	54.0	54.0	56.0	54.6	53.7
92.5°	60.9	53.4	44.6	43.0	43.8	45.5	45.7	44.6	46.3	45.5	44.3
95°	45.7	42.0	37.8	36.9	38.1	39.2	39.0	37.2	37.8	37.2	36.9
97.5°	35.5	34.4	32.1	31.5	32.7	33.6	32.9	31.0	31.3	30.7	30.2
100°	28.7	27.8	27.3	27.3	28.1	28.4	27.6	25.9	25.6	24.8	25.1
102.5°	22.7	22.7	23.0	23.6	24.1	24.1	23.0	21.6	21.1	20.2	20.2
105°	17.9	18.2	19.3	19.6	20.2	20.2	19.0	17.9	16.8	16.0	16.0
107.5°	13.9	14.5	15.7	16.5	17.1	16.8	16.0	14.7	13.4	12.5	12.5



REPORT NUMBER: P240424

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	11.0	11.7	12.8	13.9	14.2	14.2	13.4	12.0	10.2	9.9	9.9
112.5°	9.1	9.4	10.8	11.7	12.0	12.0	11.0	9.9	8.3	8.0	8.0
115°	7.4	7.7	8.8	9.6	9.9	9.9	9.4	8.3	6.5	6.5	6.5
117.5°	6.2	6.5	7.4	8.3	8.5	8.5	7.7	6.5	5.4	5.4	5.4
120°	5.4	5.7	6.2	6.9	7.1	7.1	6.5	5.4	4.5	4.5	4.5
122.5°	4.8	5.1	5.4	5.9	6.2	6.2	5.4	4.3	4.0	4.0	4.0
125°	4.3	4.5	4.8	5.1	5.4	5.1	4.5	3.7	3.4	3.7	3.7
127.5°	3.7	4.0	4.3	4.3	4.5	4.3	3.7	3.2	2.9	3.2	3.2
130°	3.4	3.4	3.7	3.7	4.0	3.7	3.2	2.6	2.6	2.9	2.9
132.5°	3.2	3.2	3.2	3.2	3.4	3.2	2.6	1.9	2.3	2.6	2.6
135°	2.6	2.6	2.9	2.6	2.9	2.3	1.9	1.7	1.9	2.3	2.3
137.5°	2.3	2.3	2.3	2.3	1.9	1.9	1.4	1.4	1.7	1.9	1.7
140°	1.9	1.9	1.9	1.7	1.7	1.4	1.1	1.1	1.4	1.4	1.4
142.5°	1.4	1.4	1.4	1.4	1.1	0.8	0.6	0.8	0.8	1.1	1.1
145°	1.1	1.1	1.1	0.8	0.6	0.6	0.3	0.6	0.6	0.8	0.8
147.5°	0.8	0.8	0.8	0.6	0.6	0.3	0.3	0.3	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.3	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)