

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: P240155

Luminaire Tested: **UTLD-AF24-30-D-U-T3-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T3-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2927.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 31
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



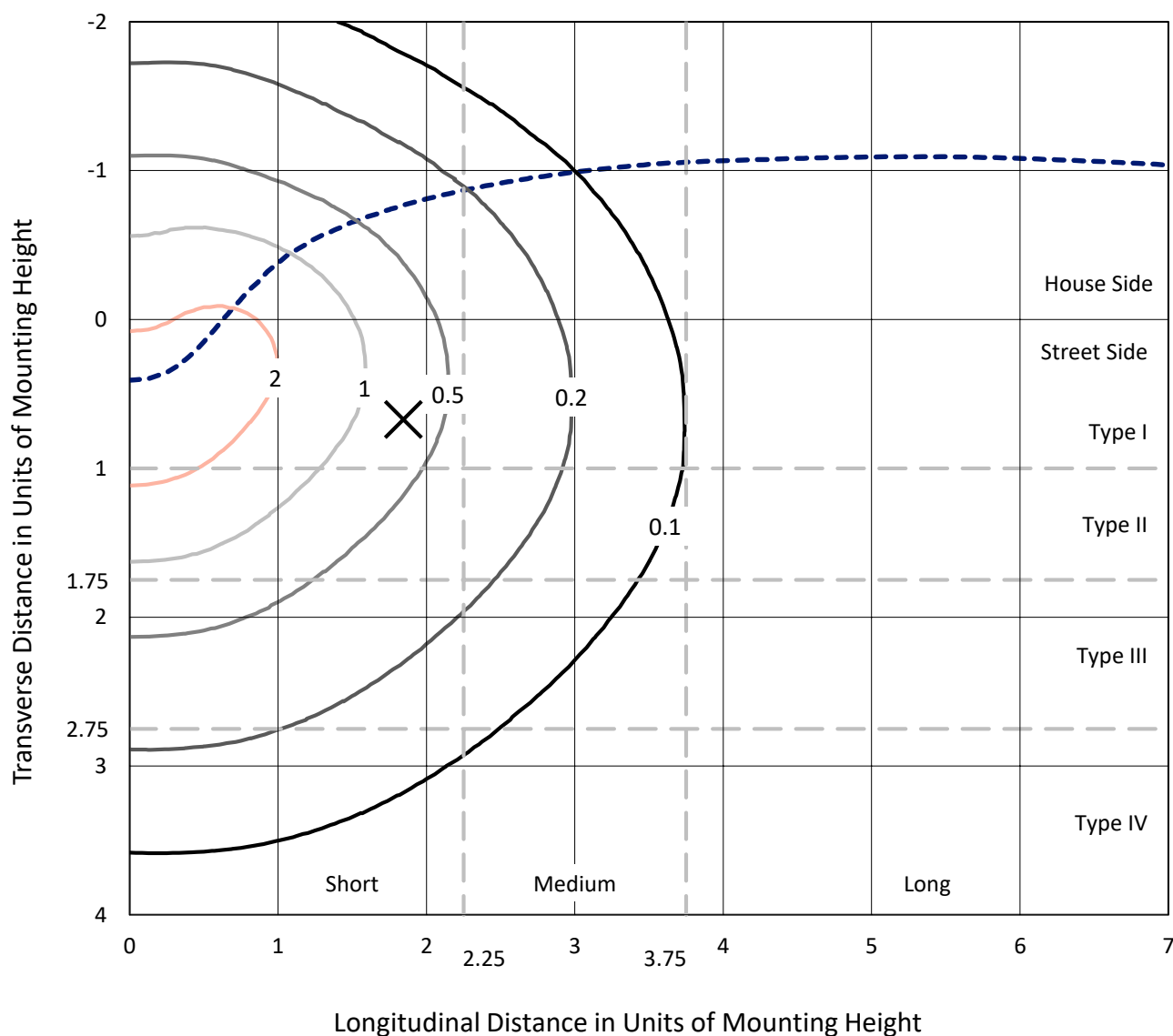
REPORT NUMBER: P240155

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

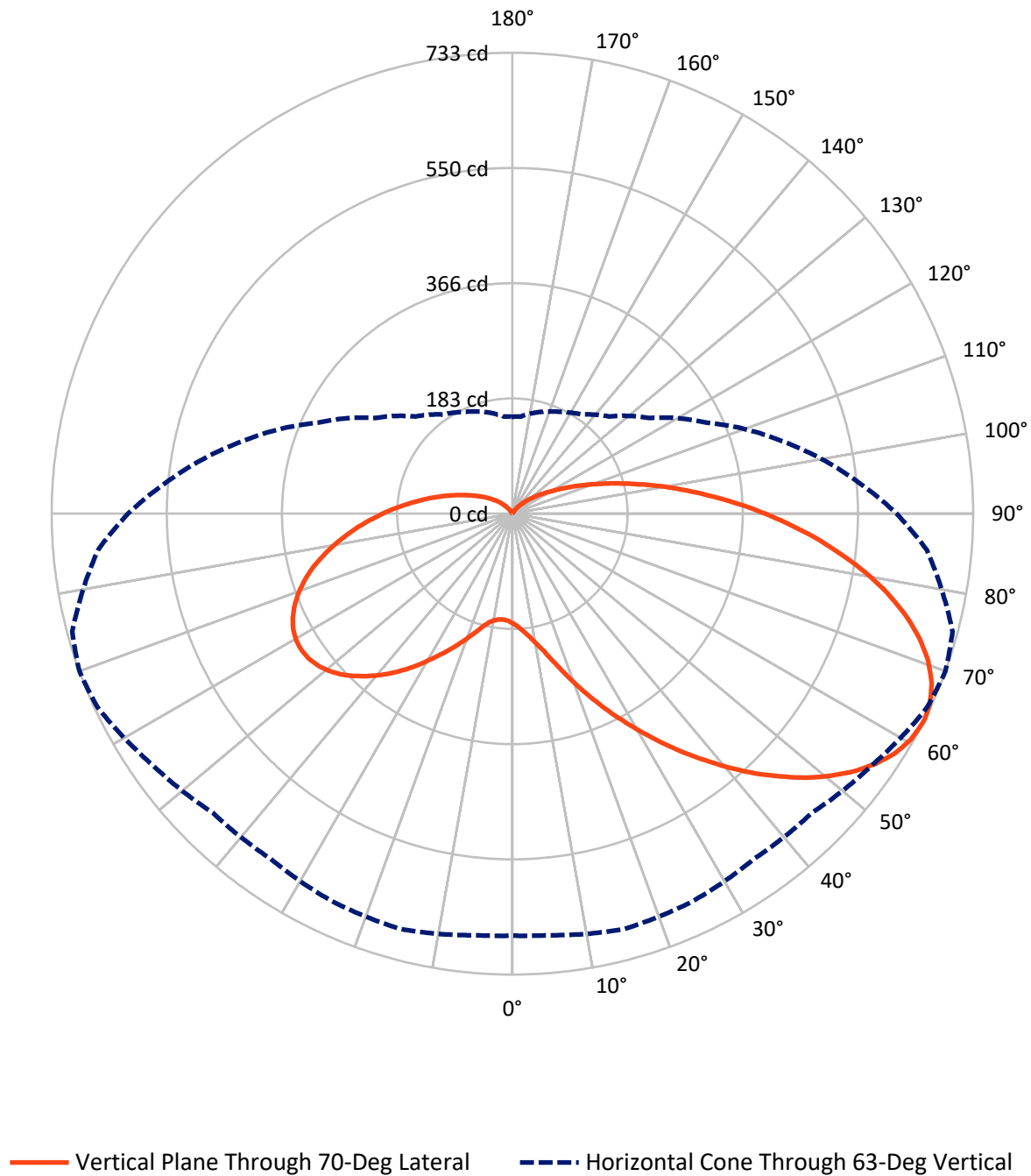


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P240155

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP

Luminous Intensity Polar Plot



REPORT NUMBER: P240155

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP

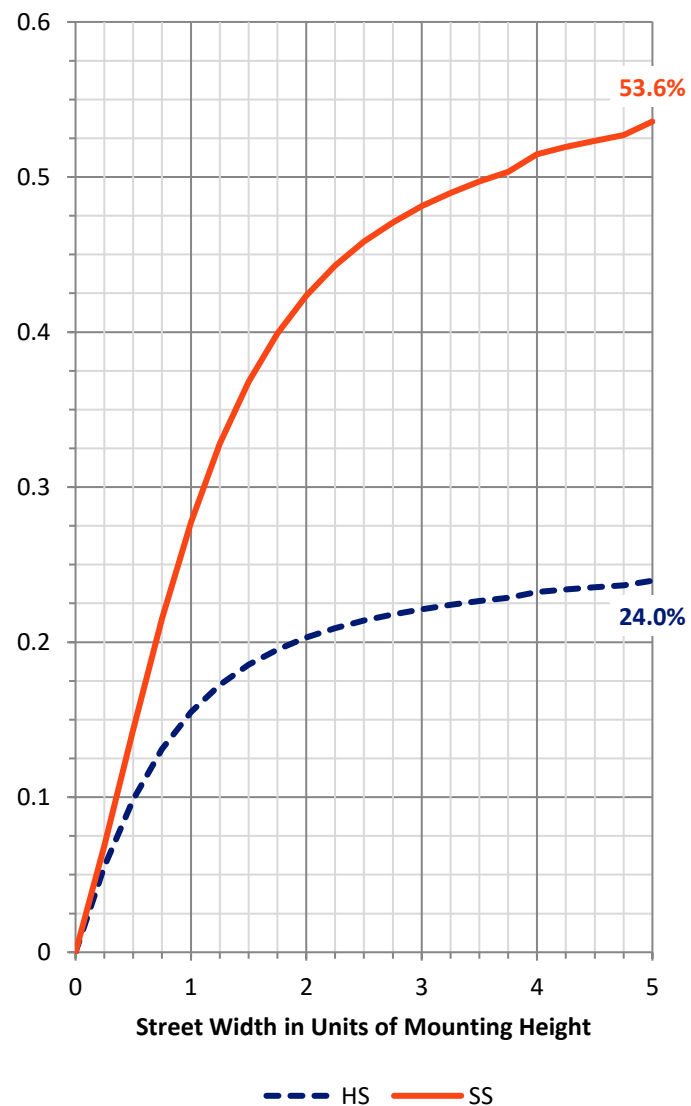
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.3	169.4	917.7
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	1691.7	318.3	2010.0
	% Fixture	57.8	10.9	68.7
Total	Lumens	2440.0	487.7	2927.7
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.4	0.6
10°-20°	61.1	2.1
20°-30°	131.2	4.5
30°-40°	228.6	7.8
40°-50°	339.8	11.6
50°-60°	433.8	14.8
60°-70°	470.3	16.1
70°-80°	428.3	14.6
80°-90°	329.5	11.3
90°-100°	221.0	7.5
100°-110°	134.0	4.6
110°-120°	74.8	2.6
120°-130°	38.0	1.3
130°-140°	15.7	0.5
140°-150°	4.0	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2440.0	83.3
0°-180°	2927.7	100.0

Coefficient of Utilization



REPORT NUMBER: P240155

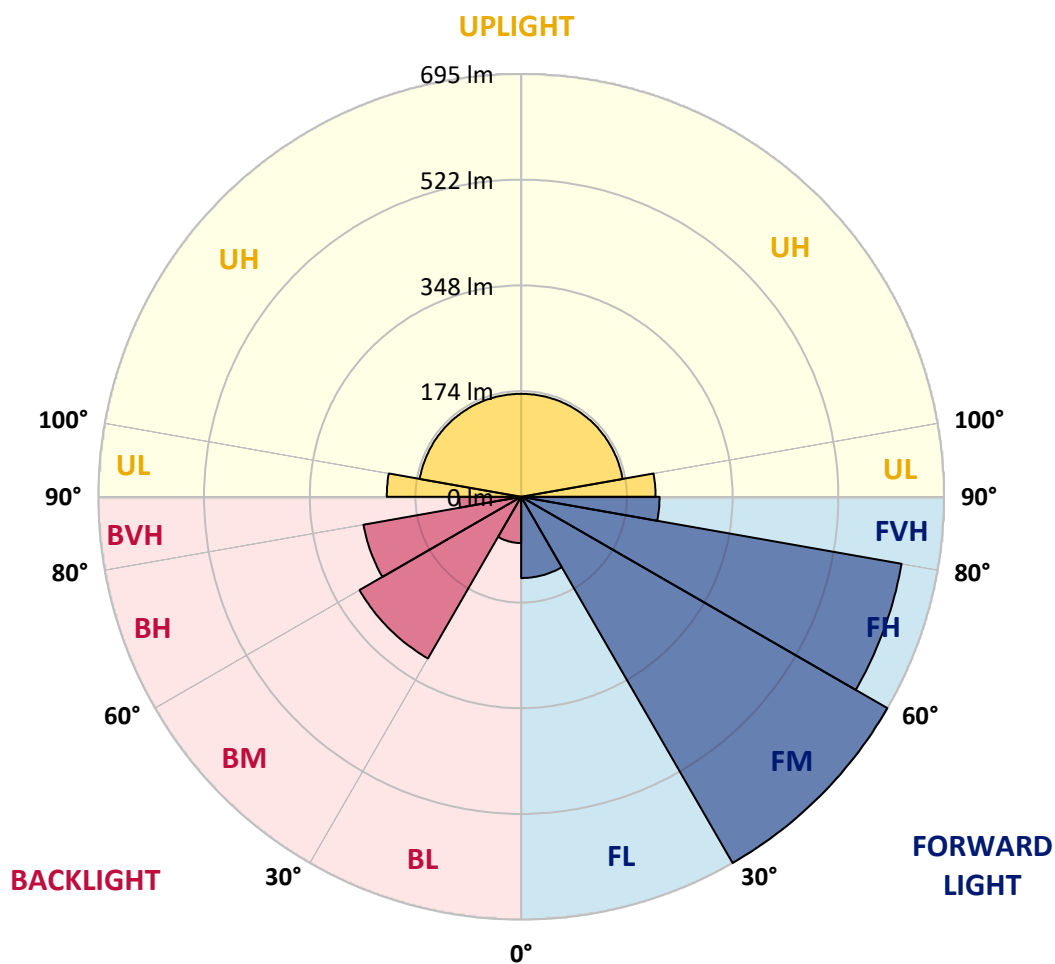
CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.6	4.6			
FM	(30°-60°)	695.3	23.8			
FH	(60°-80°)	635.2	21.7			G0/660
FVH	(80°-90°)	227.5	7.8			G3/500
BL	(0°-30°)	76.0	2.6	B0/110		
BM	(30°-60°)	306.9	10.5	B1/1000		
BH	(60°-80°)	263.4	9.0	B1/500		G1/500
BVH	(80°-90°)	102.0	3.5			G2/225
UL	(90°-100°)	221.0	7.5		U3/500	
UH	(100°-180°)	169.4	5.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P240155

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7
2.5°	188.9	188.9	188.5	188.2	187.0	185.5	183.2	181.7	180.1	178.9	176.7
5°	205.1	205.9	204.4	203.6	200.9	197.8	194.4	190.1	188.2	185.5	180.9
7.5°	222.4	223.2	221.7	219.7	216.3	211.6	206.2	200.9	197.4	194.0	187.0
10°	241.6	242.0	240.1	237.8	233.5	227.8	222.1	214.0	210.1	205.5	196.3
12.5°	263.2	262.5	261.0	257.1	252.1	245.9	238.2	230.2	224.7	219.3	207.8
15°	287.9	287.4	284.8	280.2	273.9	267.1	257.8	249.0	243.6	237.8	223.9
17.5°	313.6	312.8	310.2	304.7	298.2	289.4	282.4	272.1	265.6	259.3	243.6
20°	339.4	339.0	337.1	330.9	323.7	316.7	307.5	296.7	290.1	281.7	263.6
22.5°	369.1	367.9	364.8	359.5	353.2	346.4	336.8	323.3	315.9	307.8	286.3
25°	398.6	398.3	394.4	388.6	383.7	375.9	366.7	351.0	343.6	332.5	309.4
27.5°	429.4	428.7	424.8	418.7	414.8	407.5	396.0	380.5	371.7	361.0	335.2
30°	461.4	461.0	456.4	450.2	446.0	439.1	427.2	410.6	401.7	389.8	361.0
32.5°	493.4	493.4	488.8	483.3	478.3	469.4	458.3	442.5	432.9	420.2	387.9
35°	526.8	524.9	521.4	516.4	508.3	499.5	489.5	475.3	465.2	451.4	417.2
37.5°	558.3	558.3	552.6	548.4	539.5	529.5	520.3	508.3	497.2	483.8	445.6
40°	589.5	589.9	584.5	579.2	567.6	558.3	550.2	540.6	530.7	516.8	476.8
42.5°	619.6	618.8	613.8	607.6	594.9	584.5	579.5	571.4	564.2	549.5	506.8
45°	647.2	645.4	641.5	634.2	619.6	609.2	607.2	603.4	595.7	582.6	537.3
47.5°	668.8	667.7	666.1	656.5	641.5	631.5	631.5	633.0	627.3	613.8	565.7
50°	686.5	686.1	685.4	674.6	658.5	650.7	653.8	659.2	655.3	643.4	591.1
52.5°	698.5	698.1	699.2	688.0	672.3	665.3	672.7	683.4	680.4	669.6	615.3
55°	703.1	703.1	706.6	696.1	680.4	674.9	686.9	701.9	701.5	691.9	633.8
57.5°	701.1	701.5	707.7	698.1	683.4	680.4	696.1	716.6	718.1	708.5	649.2
60°	692.3	692.6	701.1	693.9	681.1	680.4	700.4	725.4	728.4	720.0	658.1
62.5°	675.4	676.9	687.3	682.6	672.3	674.9	698.8	728.0	732.3	724.2	661.5
63°	670.7	672.7	683.8	679.5	669.9	673.0	697.7	728.0	732.7	724.7	661.5
65°	651.9	654.2	666.9	664.9	658.1	663.8	691.1	723.8	729.6	722.3	658.1
67.5°	621.4	626.1	640.7	642.3	638.8	647.6	677.7	713.1	719.2	712.3	647.6
70°	584.9	590.3	609.2	613.8	613.1	626.1	658.1	695.0	701.5	694.6	629.9
72.5°	545.6	553.0	570.3	580.3	585.3	599.6	633.8	670.3	676.9	669.6	606.5
75°	503.0	510.7	532.2	544.5	552.2	569.9	603.7	640.4	646.1	640.4	576.8
77.5°	460.2	467.9	489.9	505.6	517.6	538.8	572.2	605.7	610.0	603.7	542.2
80°	416.3	425.2	446.4	464.8	481.0	502.2	534.5	564.9	569.9	561.8	504.9
82.5°	372.9	380.5	404.5	426.0	443.3	464.5	495.2	523.8	526.0	517.9	463.7
85°	333.7	340.1	363.7	386.8	407.1	427.9	456.4	479.0	482.5	472.2	422.9
87.5°	296.7	301.7	326.3	349.0	369.8	392.9	418.3	436.4	436.4	428.3	380.2
90°	262.5	265.9	288.3	313.2	335.5	356.0	379.8	395.2	393.3	383.3	340.1
92.5°	229.3	233.5	255.5	279.4	302.1	323.3	342.5	352.9	350.2	339.8	301.7
95°	202.0	204.0	225.5	250.1	270.9	290.1	307.1	314.4	310.2	299.7	263.6
97.5°	177.0	178.5	197.4	220.9	243.2	261.0	272.4	277.1	272.8	262.5	232.4
100°	156.6	157.0	173.9	196.6	217.4	232.8	243.2	243.2	239.4	228.9	201.6
102.5°	136.6	137.4	151.2	173.9	193.5	207.0	215.1	214.3	207.5	197.0	175.1
105°	120.4	121.2	132.0	154.0	171.7	183.9	190.5	185.9	179.3	170.1	151.6
107.5°	106.2	106.6	115.1	134.7	151.6	163.2	166.6	161.6	154.3	145.5	132.4



REPORT NUMBER: P240155

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	95.0	94.6	101.2	118.2	134.3	143.9	145.9	139.7	132.4	125.1	114.3
112.5°	84.3	84.3	88.5	102.7	117.7	126.9	127.8	118.9	112.7	106.2	99.3
115°	75.4	75.1	78.2	89.3	103.1	110.8	110.1	102.0	96.2	90.8	86.2
117.5°	67.7	67.0	69.3	76.9	89.7	97.0	95.0	85.8	81.6	77.7	75.1
120°	60.8	60.5	61.6	67.0	76.9	82.8	80.8	72.7	68.8	67.0	65.5
122.5°	54.6	54.6	54.2	57.7	65.5	70.1	67.3	60.8	58.5	57.4	57.4
125°	49.3	49.3	48.5	49.6	54.6	58.5	56.2	50.8	49.3	49.3	49.6
127.5°	43.9	43.9	43.1	42.8	45.0	47.7	45.0	41.9	41.5	41.9	42.8
130°	38.9	38.5	37.7	36.2	36.5	37.7	35.8	34.3	34.7	35.8	36.5
132.5°	34.3	33.9	32.7	30.4	28.8	28.8	27.3	27.3	28.4	29.7	31.2
135°	29.7	29.3	28.1	25.4	22.7	21.2	20.0	21.6	23.1	24.2	25.8
137.5°	25.1	24.7	23.1	20.4	17.0	14.6	14.2	16.6	18.1	19.6	20.8
140°	20.4	20.0	18.5	15.8	12.0	9.2	9.2	12.3	13.8	15.0	16.6
142.5°	16.2	15.8	14.6	11.6	7.7	5.7	6.1	8.9	10.0	11.2	12.3
145°	12.0	12.0	10.7	8.1	4.6	2.7	3.5	5.7	7.0	7.7	8.9
147.5°	8.1	8.1	7.0	5.0	2.7	1.1	1.5	3.5	4.2	5.0	5.7
150°	5.0	5.0	4.2	2.7	1.1	0.0	0.8	1.5	2.4	2.7	3.5
152.5°	2.7	2.7	1.9	1.1	0.4	0.0	0.0	0.8	0.8	1.1	1.5
155°	1.1	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.0	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: P240155

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7
2.5°	175.4	174.3	171.7	169.7	167.4	165.5	164.3	162.3	161.2	161.6	161.2
5°	178.5	176.3	171.2	167.0	162.3	158.6	155.5	152.7	151.2	150.1	150.5
7.5°	183.5	180.1	172.8	165.8	159.0	153.1	148.5	145.1	142.0	141.3	140.9
10°	191.3	186.6	176.3	167.0	158.1	150.1	143.9	138.9	135.8	134.3	134.3
12.5°	202.0	195.5	182.4	170.1	159.0	148.9	141.3	135.0	131.7	130.1	129.7
15°	217.1	209.0	192.8	176.3	162.0	150.1	140.9	134.7	132.0	131.2	130.8
17.5°	234.4	225.5	205.5	186.3	168.2	153.1	144.3	139.3	136.3	134.7	134.3
20°	254.0	242.4	219.7	197.4	177.0	161.2	151.2	144.3	140.5	138.5	138.1
22.5°	273.9	261.3	235.1	209.3	187.0	172.4	158.1	149.7	144.3	142.0	141.3
25°	295.5	281.3	250.9	222.1	199.4	182.8	166.6	154.3	148.1	145.5	145.5
27.5°	318.6	302.1	267.4	235.1	212.1	192.4	174.7	159.3	152.0	148.9	148.5
30°	342.9	324.4	284.4	249.4	223.9	201.2	181.7	164.7	155.9	152.4	152.0
32.5°	369.1	347.9	303.2	264.7	235.1	209.3	187.8	169.7	159.3	155.1	154.7
35°	394.9	370.9	320.9	279.8	245.1	216.3	192.8	174.7	162.0	157.7	157.4
37.5°	423.3	395.6	339.8	294.4	254.4	221.7	197.0	178.5	164.7	160.1	159.3
40°	450.6	419.8	357.5	307.5	262.1	226.7	200.5	182.0	167.0	162.0	161.2
42.5°	477.5	444.5	375.2	319.8	268.6	229.8	202.7	184.3	169.3	163.6	162.3
45°	504.5	467.6	393.3	329.8	273.6	232.4	204.4	186.3	171.2	164.3	163.6
47.5°	529.5	490.3	409.8	338.6	277.1	233.5	205.1	187.0	172.8	164.7	163.6
50°	553.4	509.8	423.7	345.1	279.4	233.5	205.1	187.4	173.6	164.7	164.0
52.5°	574.2	526.8	434.9	349.4	279.8	232.4	204.0	187.0	173.6	164.0	162.8
55°	589.9	540.6	442.9	351.4	278.7	230.5	202.0	185.9	173.2	162.8	161.6
57.5°	602.6	550.2	448.0	351.0	275.9	227.4	199.7	184.3	172.1	160.8	159.7
60°	610.3	555.3	448.7	348.2	272.1	223.6	196.6	182.0	170.4	159.0	157.4
62.5°	611.5	555.0	446.0	342.9	266.3	218.9	192.8	178.9	167.8	155.9	154.3
63°	611.1	554.5	444.5	341.8	265.1	218.2	192.4	178.5	167.4	155.1	154.0
65°	606.8	549.9	438.6	335.5	259.7	213.6	188.9	175.4	165.1	152.7	150.9
67.5°	595.7	539.5	427.9	325.2	251.6	207.5	183.9	171.7	161.2	148.9	147.0
70°	578.8	524.9	413.3	313.6	243.2	200.9	178.5	166.6	157.0	144.6	142.4
72.5°	556.1	503.7	396.4	300.1	233.2	193.5	172.4	161.2	151.6	140.0	136.6
75°	528.8	479.0	377.5	285.5	222.4	185.9	166.2	155.9	146.2	134.7	131.2
77.5°	496.0	451.0	354.0	270.2	212.1	177.8	159.3	149.4	140.0	128.5	125.1
80°	461.0	419.8	330.5	252.9	200.5	169.3	152.4	142.4	133.2	122.3	118.2
82.5°	424.1	386.4	305.6	236.3	188.9	160.5	145.1	135.0	126.2	115.8	112.0
85°	386.8	352.9	281.3	219.7	177.0	152.0	137.4	128.2	118.6	108.5	104.6
87.5°	349.8	320.2	257.8	202.4	165.8	143.5	129.7	120.4	110.8	101.2	98.1
90°	314.4	288.6	233.2	186.3	154.3	134.3	122.0	112.7	103.5	93.9	90.8
92.5°	279.0	256.7	210.8	171.7	143.5	125.8	114.3	105.1	95.4	86.2	84.3
95°	247.5	228.2	189.8	155.9	133.2	117.7	106.6	97.8	87.8	78.9	77.7
97.5°	217.8	201.2	168.9	142.4	122.8	108.9	98.9	89.7	79.7	71.6	70.8
100°	191.3	177.8	151.2	128.5	112.3	100.9	91.6	82.3	72.3	65.5	64.7
102.5°	167.0	156.2	134.7	116.2	103.1	92.8	83.5	74.7	65.1	58.9	58.9
105°	146.2	136.6	119.3	104.6	93.5	84.3	75.8	67.0	57.4	52.4	52.4
107.5°	126.6	120.1	105.9	93.5	84.7	76.6	68.5	59.6	50.4	46.5	47.0



REPORT NUMBER: P240155

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	110.5	105.1	93.1	83.9	76.6	69.3	61.6	52.7	43.9	41.2	41.5
112.5°	96.2	92.0	81.9	74.7	68.5	62.3	54.6	45.8	38.1	36.5	36.9
115°	83.9	80.4	72.7	66.2	61.2	55.4	48.5	39.6	33.1	32.3	32.3
117.5°	73.1	70.4	63.8	58.9	54.2	49.3	42.4	34.3	28.4	28.4	28.4
120°	64.2	62.0	56.6	52.0	48.1	43.1	36.5	28.8	24.7	25.1	25.1
122.5°	55.8	54.2	49.3	45.8	41.9	37.7	31.2	23.8	21.2	21.9	22.3
125°	48.9	47.4	43.5	39.6	36.2	31.9	25.8	20.0	18.5	19.2	19.2
127.5°	41.9	41.2	37.7	34.3	31.2	26.9	21.2	16.6	16.2	17.0	17.0
130°	36.2	35.4	32.7	28.8	25.8	21.9	17.0	13.5	13.5	14.2	14.2
132.5°	30.8	30.4	27.7	24.2	21.2	17.3	13.5	10.7	11.6	12.3	12.3
135°	25.4	25.4	23.1	19.6	16.6	13.1	10.0	8.9	9.6	10.4	10.4
137.5°	20.8	20.4	18.5	15.3	12.3	9.6	7.3	7.0	8.1	8.9	8.9
140°	16.6	16.2	14.6	12.0	8.9	6.5	5.0	5.4	6.5	7.0	7.3
142.5°	12.3	12.3	10.7	8.9	5.7	3.9	3.1	4.2	5.0	5.4	5.7
145°	8.9	8.9	7.7	5.7	3.5	1.9	1.9	3.1	3.9	4.2	4.2
147.5°	5.7	5.7	5.0	3.5	1.9	0.8	1.1	1.9	2.7	3.1	3.1
150°	3.5	3.1	2.7	1.5	0.8	0.0	0.4	0.8	1.5	1.9	1.5
152.5°	1.5	1.5	1.1	0.8	0.4	0.0	0.0	0.0	0.4	0.8	0.8
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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)