

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: P266314

Luminaire Tested: **UTLD-AF24-30-D-U-T3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266314
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 2486.1 lumens
Efficiency: N/A
Efficacy: 80.2 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 - G2

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

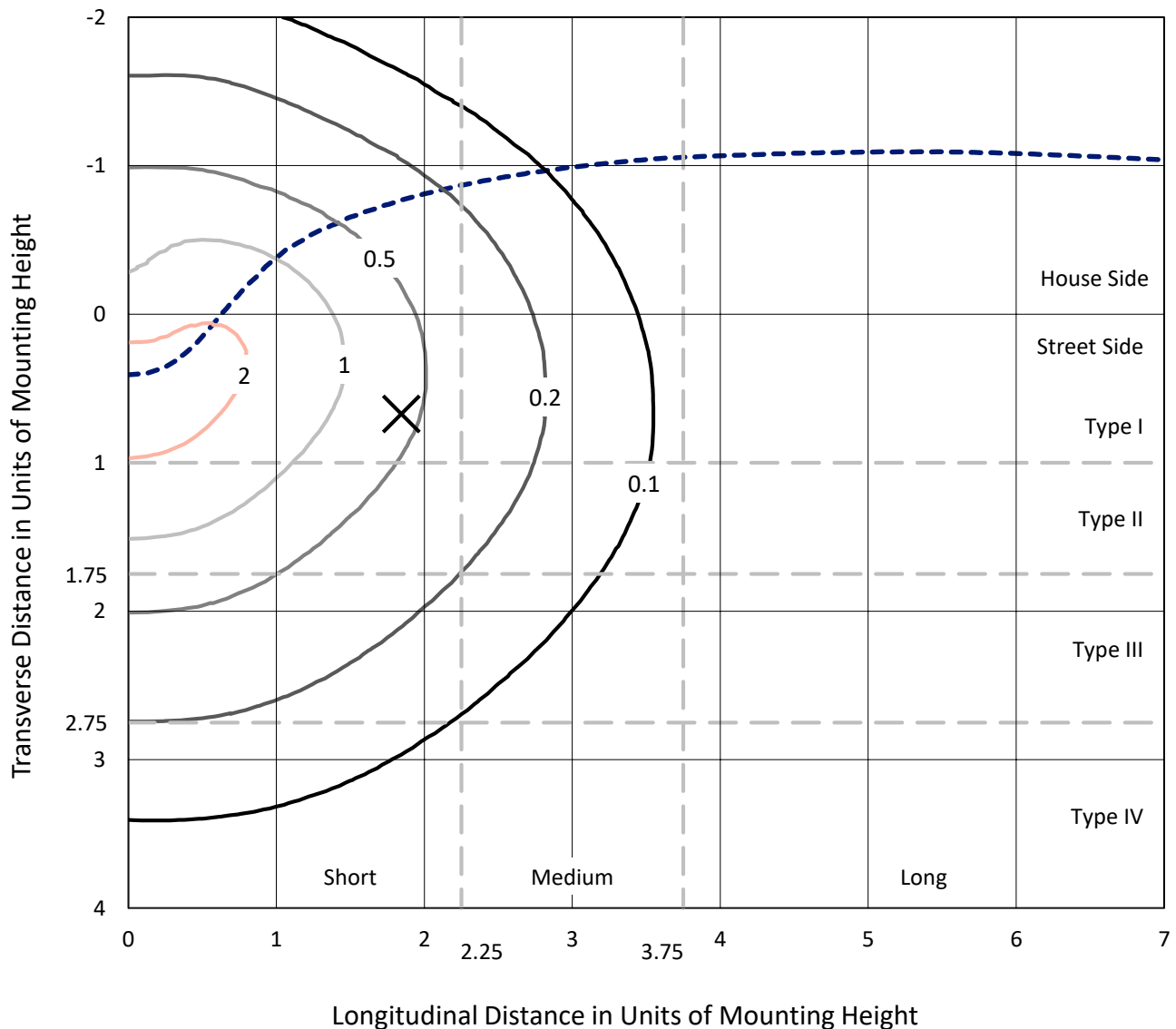


REPORT NUMBER: P266314

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

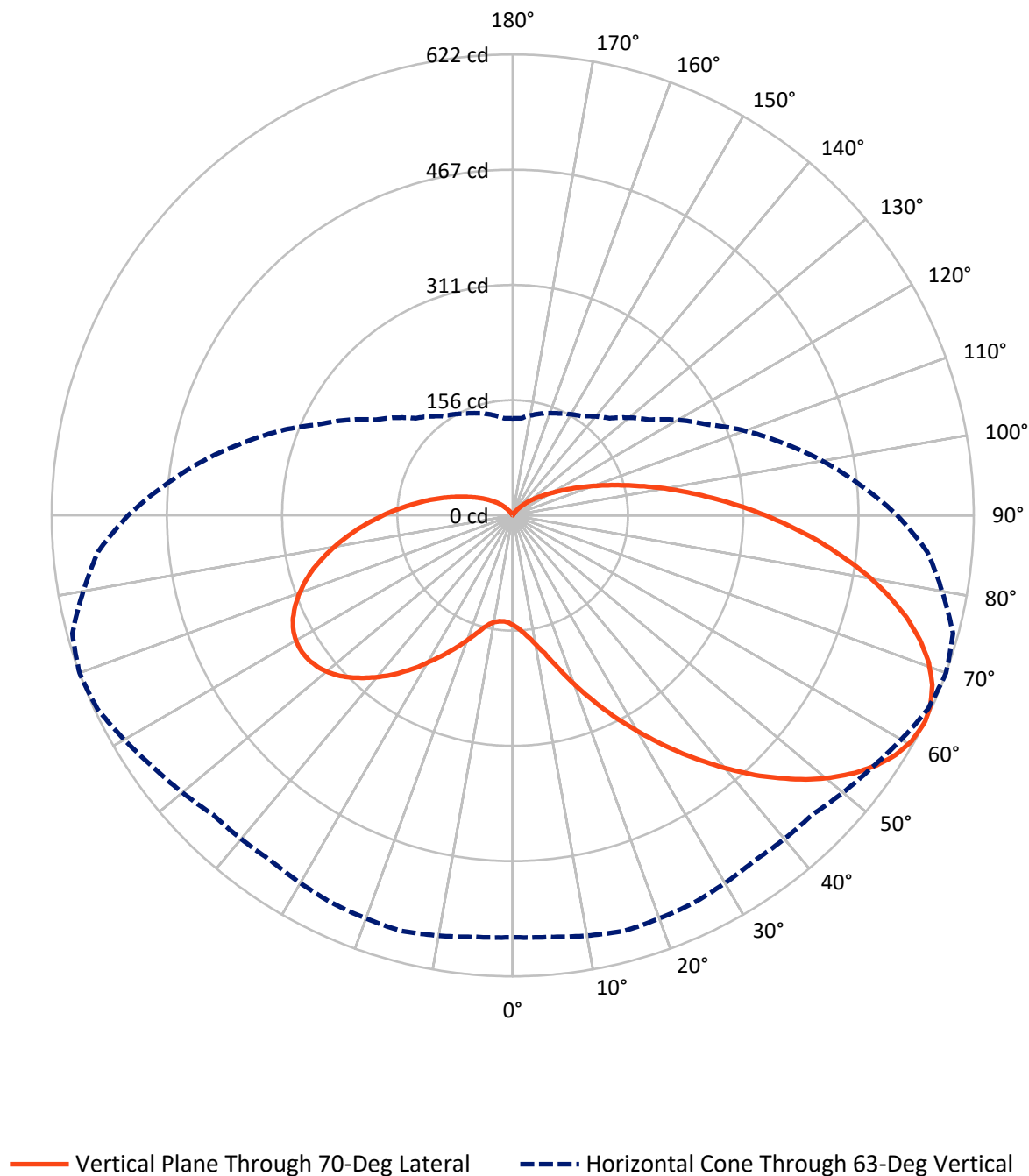


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P266314

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266314

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP-7027

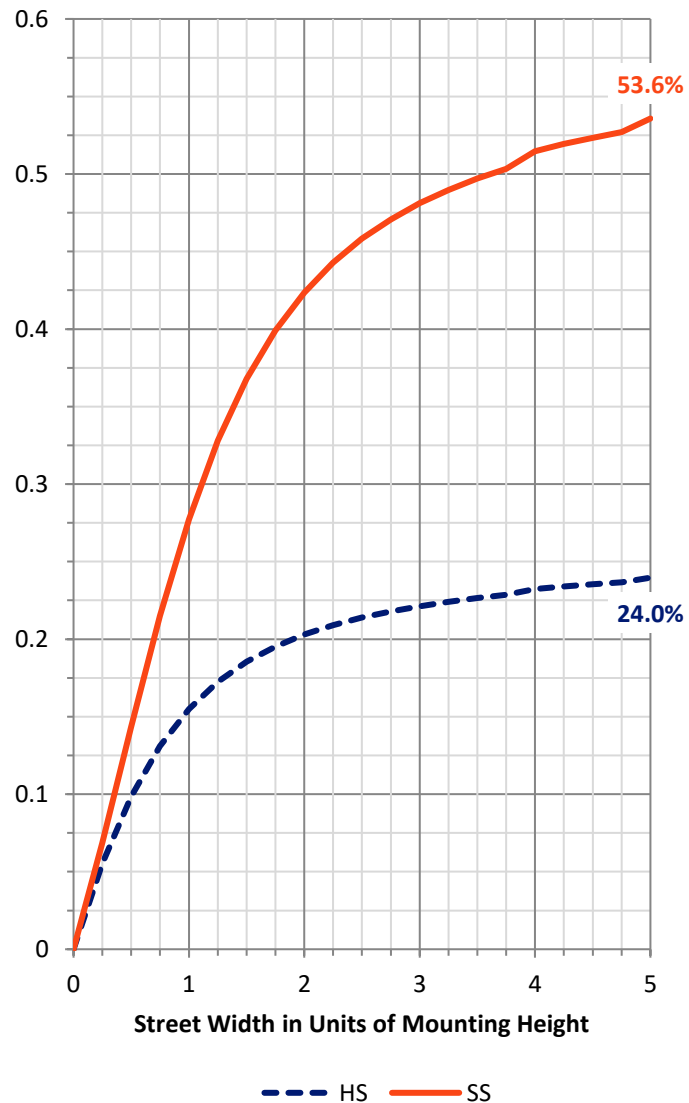
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	635.5	143.8	779.3
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	1436.5	270.3	1706.8
	% Fixture	57.8	10.9	68.7
Total	Lumens	2072.0	414.1	2486.1
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	0.6
10°-20°	51.9	2.1
20°-30°	111.4	4.5
30°-40°	194.2	7.8
40°-50°	288.5	11.6
50°-60°	368.4	14.8
60°-70°	399.4	16.1
70°-80°	363.7	14.6
80°-90°	279.8	11.3
90°-100°	187.7	7.5
100°-110°	113.7	4.6
110°-120°	63.5	2.6
120°-130°	32.2	1.3
130°-140°	13.4	0.5
140°-150°	3.4	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2072.0	83.3
0°-180°	2486.1	100.0

Coefficient of Utilization



REPORT NUMBER: P266314

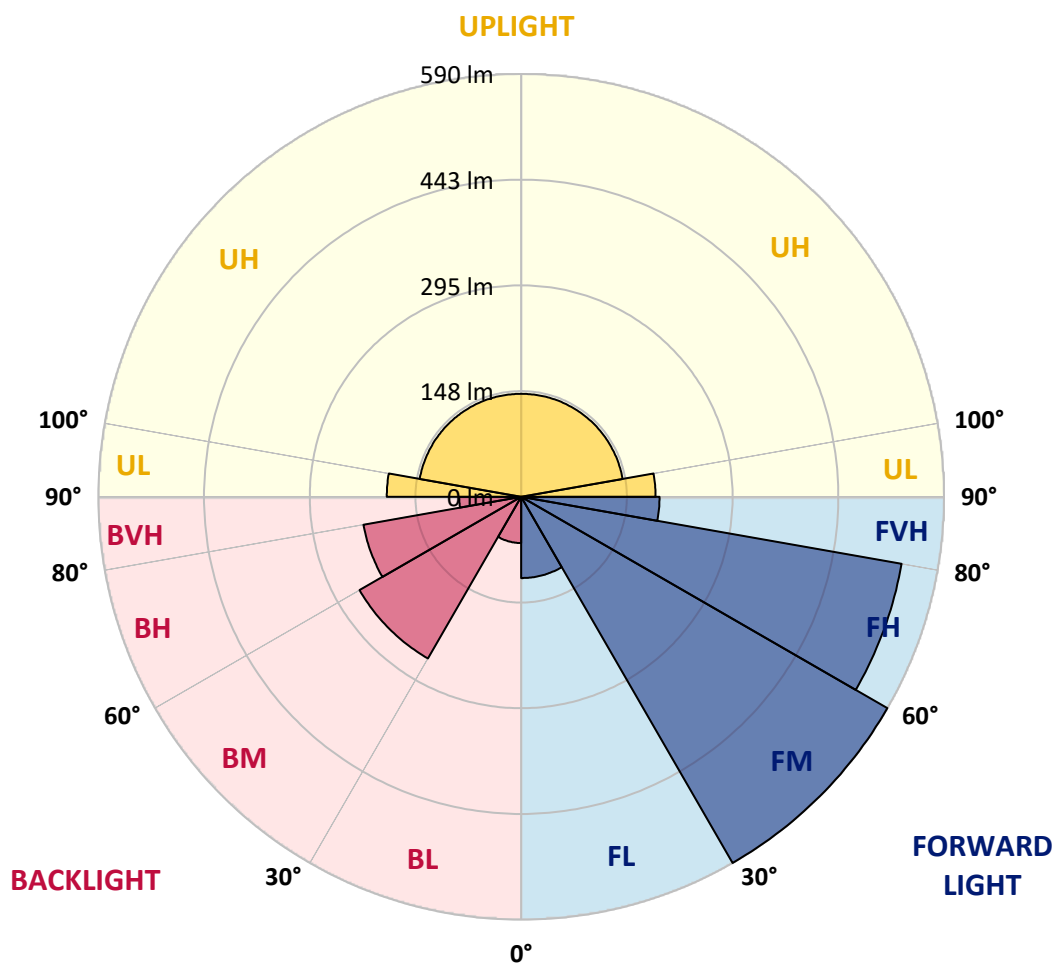
CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	113.5	4.6			
FM	(30°-60°)	590.5	23.8			
FH	(60°-80°)	539.4	21.7			G0/660
FVH	(80°-90°)	193.2	7.8			G2/225
BL	(0°-30°)	64.6	2.6	B0/110		
BM	(30°-60°)	260.6	10.5	B1/1000		
BH	(60°-80°)	223.7	9.0	B1/500		G1/500
BVH	(80°-90°)	86.6	3.5			G1/100
UL	(90°-100°)	187.7	7.5		U3/500	
UH	(100°-180°)	143.8	5.8		U3/500	

BUG Rating: B1-U3-G2

Type IV Short



REPORT NUMBER: P266314

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4
2.5°	160.4	160.4	160.1	159.8	158.8	157.6	155.5	154.1	152.9	152.0	149.9
5°	174.2	174.8	173.6	172.8	170.6	168.0	165.0	161.4	159.8	157.6	153.6
7.5°	188.9	189.5	188.3	186.6	183.7	179.8	175.2	170.6	167.7	164.7	158.8
10°	205.3	205.5	203.9	201.9	198.3	193.4	188.6	181.6	178.5	174.5	166.6
12.5°	223.5	222.9	221.5	218.3	214.1	208.8	202.3	195.4	190.8	186.3	176.4
15°	244.3	244.1	241.9	238.0	232.8	226.8	218.9	211.5	206.9	201.9	190.3
17.5°	266.3	265.7	263.4	258.8	253.2	245.7	239.8	231.0	225.5	220.3	206.9
20°	288.3	287.8	286.3	281.0	274.8	269.0	261.0	252.0	246.3	239.2	223.9
22.5°	313.4	312.4	309.7	305.2	299.9	294.0	285.9	274.5	268.2	261.4	243.1
25°	338.5	338.2	335.0	330.0	325.7	319.3	311.4	298.0	291.8	282.3	262.8
27.5°	364.7	364.1	360.8	355.5	352.2	346.0	336.2	323.2	315.7	306.5	284.7
30°	391.8	391.5	387.6	382.3	378.7	372.8	362.7	348.6	341.1	331.0	306.5
32.5°	418.9	418.9	414.9	410.4	406.2	398.7	389.1	375.9	367.6	356.8	329.4
35°	447.4	445.6	442.8	438.6	431.6	424.2	415.6	403.6	395.1	383.2	354.2
37.5°	474.1	474.1	469.3	465.6	458.1	449.6	441.7	431.6	422.3	410.7	378.4
40°	500.6	501.0	496.4	491.8	482.0	474.1	467.3	459.2	450.6	438.8	404.9
42.5°	526.0	525.5	521.1	515.9	505.1	496.4	492.1	485.3	479.1	466.6	430.4
45°	549.7	548.0	544.7	538.5	526.0	517.2	515.6	512.4	505.8	494.7	456.2
47.5°	567.9	567.0	565.7	557.5	544.7	536.3	536.3	537.5	532.6	521.1	480.4
50°	583.0	582.6	582.0	572.8	559.1	552.5	555.2	559.7	556.5	546.3	502.0
52.5°	593.2	592.8	593.8	584.3	570.9	565.0	571.2	580.3	577.7	568.5	522.5
55°	597.1	597.1	600.0	591.2	577.7	573.2	583.3	596.0	595.7	587.5	538.3
57.5°	595.3	595.7	601.0	592.8	580.3	577.7	591.2	608.4	609.8	601.5	551.3
60°	587.9	588.2	595.3	589.2	578.4	577.7	594.8	616.0	618.7	611.3	558.7
62.5°	573.5	574.7	583.5	579.6	570.9	573.2	593.4	618.3	621.8	615.0	561.7
63°	569.5	571.2	580.7	577.2	568.8	571.5	592.4	618.3	622.2	615.2	561.7
65°	553.5	555.5	566.3	564.7	558.7	563.6	587.0	614.7	619.7	613.4	558.7
67.5°	527.8	531.6	544.1	545.5	542.4	549.9	575.5	605.5	610.8	604.9	549.9
70°	496.8	501.3	517.2	521.1	520.6	531.6	558.7	590.1	595.7	589.8	534.9
72.5°	463.3	469.5	484.2	492.8	497.0	509.1	538.3	569.3	574.7	568.5	515.0
75°	427.1	433.6	451.9	462.4	468.9	483.9	512.8	543.7	548.7	543.7	489.8
77.5°	390.9	397.4	415.9	429.4	439.5	457.4	486.0	514.3	518.0	512.8	460.4
80°	353.6	361.1	379.1	394.7	408.5	426.4	454.0	479.8	483.9	477.1	428.8
82.5°	316.7	323.2	343.4	361.7	376.4	394.4	420.5	444.8	446.6	439.8	393.7
85°	283.3	288.9	308.7	328.4	345.8	363.4	387.6	406.8	409.7	401.0	359.1
87.5°	252.0	256.1	277.0	296.4	314.0	333.6	355.2	370.6	370.6	363.8	322.9
90°	222.9	225.8	244.8	266.0	284.9	302.3	322.5	335.5	334.0	325.5	288.9
92.5°	194.8	198.3	217.0	237.2	256.6	274.5	290.8	299.7	297.3	288.5	256.1
95°	171.5	173.3	191.5	212.4	230.1	246.3	260.8	266.9	263.4	254.6	223.9
97.5°	150.3	151.6	167.7	187.6	206.5	221.5	231.4	235.3	231.8	222.9	197.4
100°	132.9	133.3	147.7	166.9	184.6	197.6	206.5	206.5	203.2	194.5	171.2
102.5°	116.1	116.7	128.4	147.7	164.4	175.8	182.6	181.9	176.2	167.4	148.7
105°	102.2	102.9	112.1	130.8	145.7	156.1	161.8	157.8	152.3	144.4	128.7
107.5°	90.2	90.5	97.6	114.4	128.7	138.6	141.6	137.3	131.1	123.5	112.4



REPORT NUMBER: P266314

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	80.7	80.4	86.0	100.3	114.1	122.2	123.8	118.7	112.4	106.2	97.0
112.5°	71.5	71.5	75.2	87.2	100.0	107.8	108.4	101.0	95.8	90.2	84.4
115°	64.0	63.7	66.4	75.7	87.6	94.1	93.5	86.5	81.7	77.2	73.2
117.5°	57.5	56.9	58.7	65.3	76.1	82.4	80.7	72.9	69.3	66.0	63.7
120°	51.7	51.4	52.3	56.9	65.3	70.2	68.6	61.8	58.5	56.9	55.5
122.5°	46.4	46.4	46.1	49.0	55.5	59.5	57.2	51.7	49.6	48.7	48.7
125°	41.9	41.9	41.2	42.1	46.4	49.6	47.7	43.1	41.9	41.9	42.1
127.5°	37.3	37.3	36.7	36.3	38.3	40.6	38.3	35.7	35.4	35.7	36.3
130°	33.0	32.7	32.0	30.7	31.0	32.0	30.5	29.0	29.5	30.5	31.0
132.5°	29.0	28.7	27.8	25.8	24.6	24.6	23.1	23.1	24.2	25.2	26.5
135°	25.2	24.9	23.9	21.6	19.3	18.0	17.0	18.2	19.7	20.7	21.9
137.5°	21.2	20.9	19.7	17.2	14.4	12.4	12.0	14.1	15.4	16.7	17.6
140°	17.2	17.0	15.7	13.5	10.2	7.8	7.8	10.5	11.8	12.8	14.1
142.5°	13.7	13.5	12.4	9.8	6.6	4.9	5.2	7.5	8.5	9.5	10.5
145°	10.2	10.2	9.2	6.8	4.0	2.2	3.0	4.9	5.8	6.6	7.5
147.5°	6.8	6.8	5.8	4.2	2.2	1.0	1.3	3.0	3.7	4.2	4.9
150°	4.2	4.2	3.7	2.2	1.0	0.0	0.7	1.3	1.9	2.2	3.0
152.5°	2.2	2.2	1.6	1.0	0.3	0.0	0.0	0.7	0.7	1.0	1.3
155°	1.0	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	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: P266314

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4
2.5°	148.9	148.0	145.7	144.1	142.1	140.6	139.5	137.9	136.9	137.3	136.9
5°	151.6	149.7	145.4	141.8	137.9	134.7	132.1	129.7	128.4	127.4	127.7
7.5°	155.9	152.9	146.8	140.9	134.9	130.1	126.1	123.2	120.6	120.0	119.7
10°	162.5	158.6	149.7	141.8	134.2	127.4	122.2	117.9	115.3	114.1	114.1
12.5°	171.5	165.9	154.9	144.4	134.9	126.4	120.0	114.8	111.7	110.4	110.1
15°	184.3	177.4	163.8	149.7	137.6	127.4	119.7	114.4	112.1	111.4	111.1
17.5°	199.1	191.5	174.5	158.1	142.8	130.1	122.6	118.2	115.7	114.4	114.1
20°	215.7	205.9	186.6	167.7	150.3	136.9	128.4	122.6	119.3	117.7	117.3
22.5°	232.8	221.9	199.7	177.8	158.8	146.5	134.2	127.1	122.6	120.6	120.0
25°	250.9	238.9	213.1	188.6	169.3	155.1	141.6	131.1	125.9	123.5	123.5
27.5°	270.6	256.6	227.1	199.7	180.0	163.4	148.4	135.3	129.0	126.4	126.1
30°	291.1	275.5	241.5	211.7	190.3	170.9	154.1	139.9	132.3	129.4	129.0
32.5°	313.4	295.5	257.5	224.8	199.7	177.8	159.4	144.1	135.3	131.7	131.3
35°	335.2	315.0	272.5	237.5	208.1	183.7	163.8	148.4	137.6	133.9	133.7
37.5°	359.4	336.0	288.5	250.0	216.0	188.3	167.4	151.6	139.9	136.0	135.3
40°	382.7	356.4	303.5	261.0	222.5	192.4	170.3	154.6	141.8	137.6	136.9
42.5°	405.6	377.4	318.5	271.6	228.1	195.1	172.2	156.6	143.8	138.9	137.9
45°	428.4	397.1	334.0	280.0	232.3	197.4	173.6	158.1	145.4	139.5	138.9
47.5°	449.6	416.4	348.1	287.5	235.3	198.3	174.2	158.8	146.8	139.9	138.9
50°	470.0	433.0	359.9	293.0	237.2	198.3	174.2	159.1	147.4	139.9	139.1
52.5°	487.5	447.4	369.3	296.7	237.5	197.4	173.3	158.8	147.4	139.1	138.2
55°	501.0	459.2	376.1	298.3	236.6	195.7	171.5	157.8	147.1	138.2	137.3
57.5°	511.8	467.3	380.3	298.0	234.3	193.1	169.6	156.6	146.1	136.6	135.6
60°	518.2	471.5	381.1	295.7	231.0	189.8	166.9	154.6	144.7	134.9	133.7
62.5°	519.2	471.3	378.7	291.1	226.2	185.9	163.8	152.0	142.6	132.3	131.1
63°	519.0	470.9	377.4	290.2	225.1	185.3	163.4	151.6	142.1	131.7	130.8
65°	515.3	466.9	372.5	284.9	220.5	181.4	160.4	148.9	140.1	129.7	128.1
67.5°	505.8	458.1	363.4	276.0	213.6	176.2	156.1	145.7	136.9	126.4	124.9
70°	491.5	445.6	351.0	266.3	206.5	170.6	151.6	141.6	133.3	122.9	120.9
72.5°	472.1	427.8	336.5	254.8	198.0	164.4	146.5	136.9	128.7	118.9	116.1
75°	449.1	406.8	320.5	242.5	188.9	157.8	141.2	132.3	124.1	114.4	111.4
77.5°	421.2	382.9	300.7	229.3	180.0	150.9	135.3	126.8	118.9	109.1	106.2
80°	391.5	356.4	280.7	214.7	170.3	143.8	129.4	120.9	113.0	103.9	100.3
82.5°	360.1	328.2	259.5	200.6	160.4	136.3	123.2	114.8	107.2	98.4	95.1
85°	328.4	299.7	238.9	186.6	150.3	129.0	116.7	108.9	100.6	92.2	88.9
87.5°	297.0	271.8	218.9	171.8	140.9	121.9	110.1	102.2	94.1	86.0	83.4
90°	266.9	245.1	198.0	158.1	131.1	114.1	103.6	95.8	87.9	79.7	77.2
92.5°	237.0	218.0	179.1	145.7	121.9	106.9	97.0	89.2	81.0	73.2	71.5
95°	210.2	193.8	161.1	132.3	113.0	100.0	90.5	83.1	74.5	67.1	66.0
97.5°	185.0	170.9	143.5	120.9	104.3	92.4	84.0	76.1	67.6	60.7	60.1
100°	162.5	150.9	128.4	109.1	95.4	85.6	77.8	69.9	61.4	55.5	54.8
102.5°	141.8	132.7	114.4	98.6	87.6	78.7	70.8	63.4	55.2	49.9	49.9
105°	124.1	116.1	101.2	88.9	79.4	71.5	64.4	56.9	48.7	44.5	44.5
107.5°	107.4	102.0	89.9	79.4	71.9	65.0	58.2	50.7	42.8	39.5	39.9



REPORT NUMBER: P266314

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	93.9	89.2	79.1	71.2	65.0	58.7	52.3	44.7	37.3	34.9	35.4
112.5°	81.7	78.2	69.6	63.4	58.2	52.9	46.4	38.8	32.3	31.0	31.4
115°	71.2	68.4	61.8	56.2	51.9	47.0	41.2	33.6	28.0	27.5	27.5
117.5°	62.2	59.7	54.3	49.9	46.1	41.9	35.9	29.0	24.2	24.2	24.2
120°	54.5	52.6	48.0	44.0	40.9	36.7	31.0	24.6	20.9	21.2	21.2
122.5°	47.4	46.1	41.9	38.8	35.7	32.0	26.5	20.2	18.0	18.7	19.0
125°	41.5	40.2	36.9	33.6	30.7	27.0	21.9	17.0	15.7	16.3	16.3
127.5°	35.7	34.9	32.0	29.0	26.5	22.8	18.0	14.1	13.7	14.4	14.4
130°	30.7	30.1	27.8	24.6	21.9	18.7	14.4	11.5	11.5	12.0	12.0
132.5°	26.1	25.8	23.5	20.7	18.0	14.7	11.5	9.2	9.8	10.5	10.5
135°	21.6	21.6	19.7	16.7	14.1	11.0	8.5	7.5	8.2	8.9	8.9
137.5°	17.6	17.2	15.7	13.0	10.5	8.2	6.2	5.8	6.8	7.5	7.5
140°	14.1	13.7	12.4	10.2	7.5	5.6	4.2	4.6	5.6	5.8	6.2
142.5°	10.5	10.5	9.2	7.5	4.9	3.2	2.6	3.7	4.2	4.6	4.9
145°	7.5	7.5	6.6	4.9	3.0	1.6	1.6	2.6	3.2	3.7	3.7
147.5°	4.9	4.9	4.2	3.0	1.6	0.7	1.0	1.6	2.2	2.6	2.6
150°	3.0	2.6	2.2	1.3	0.7	0.0	0.3	0.7	1.3	1.6	1.3
152.5°	1.3	1.3	1.0	0.7	0.3	0.0	0.0	0.0	0.3	0.7	0.7
155°	0.3	0.3	0.3	0.3	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)