

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: P266307

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
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-T2U-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.5 lumens
Efficiency: N/A
Efficacy: 81.2 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

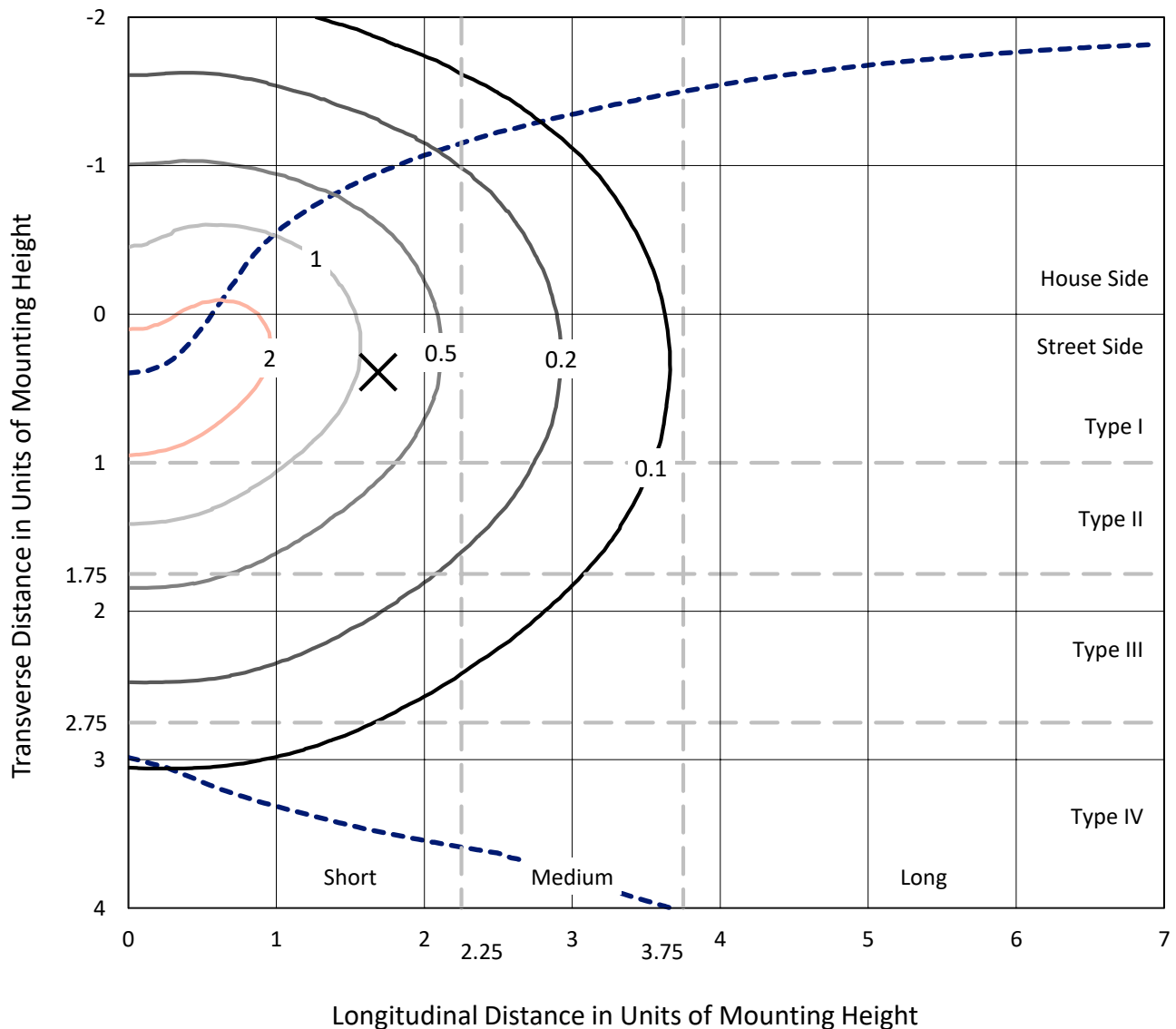


REPORT NUMBER: P266307

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

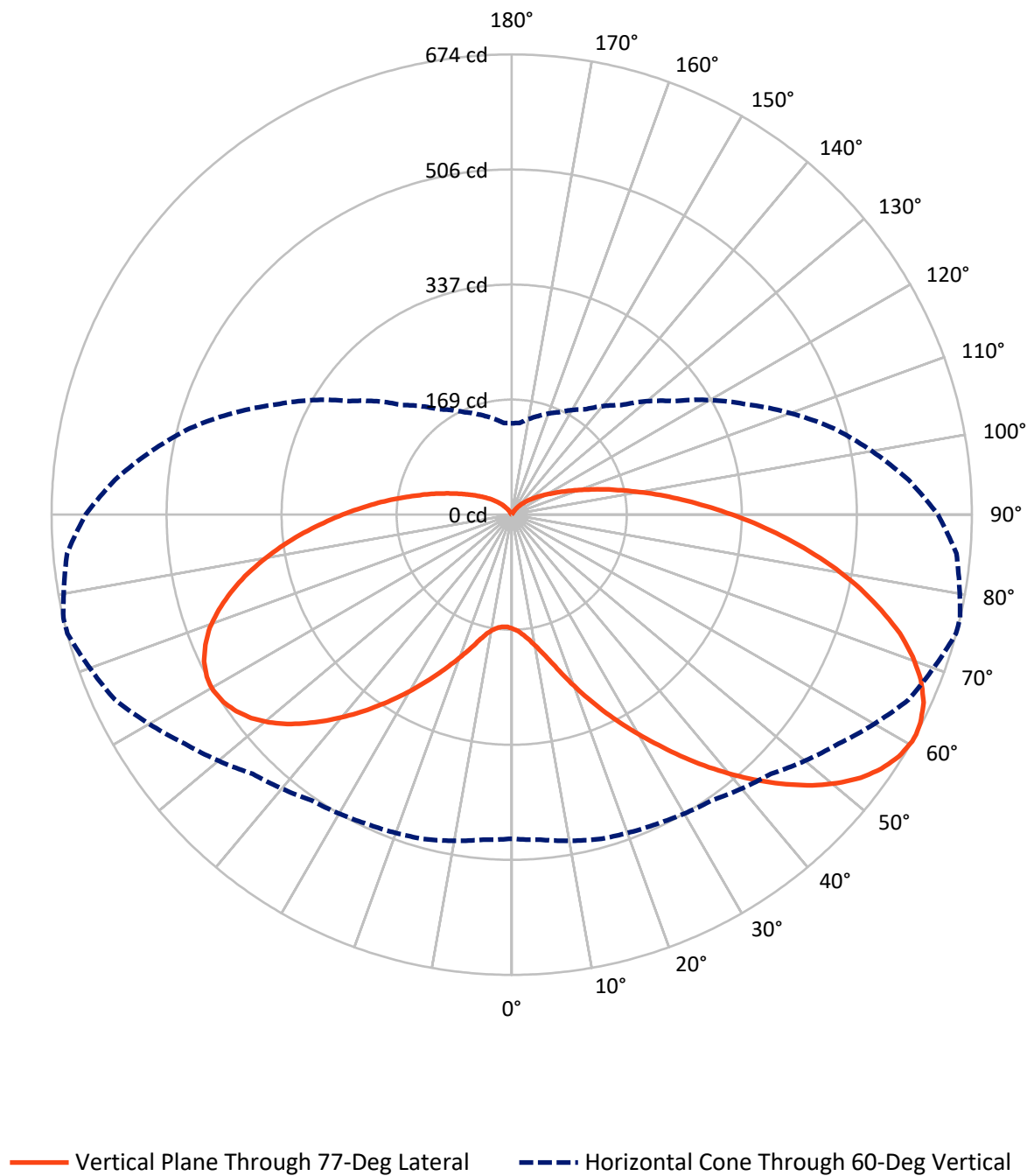


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P266307

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266307

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7027

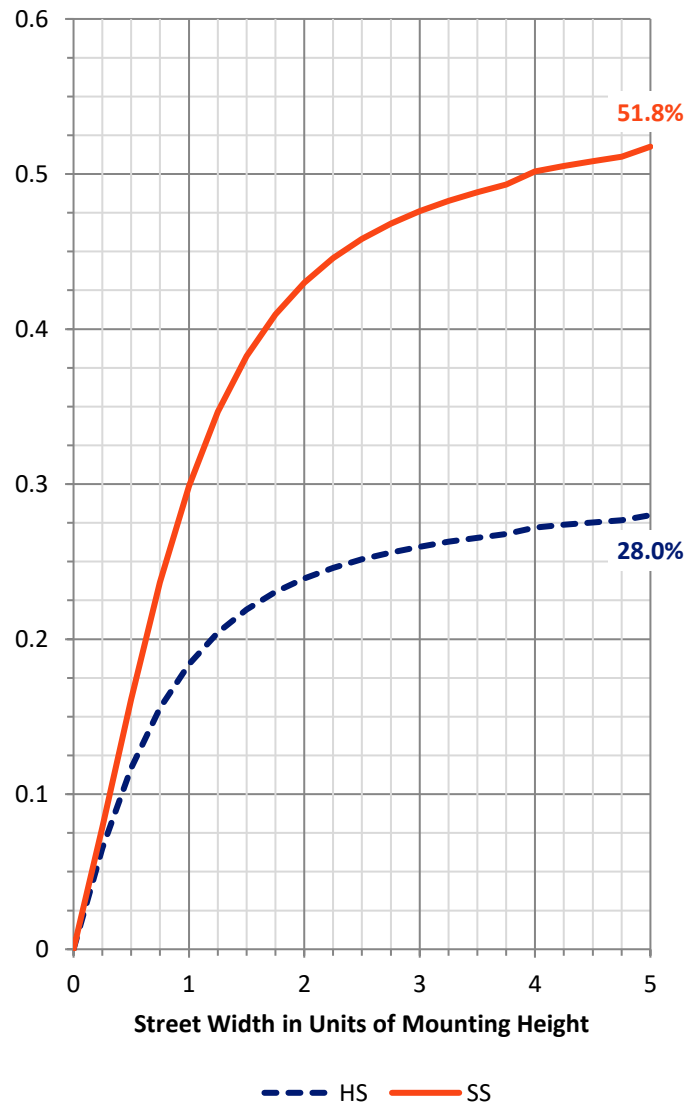
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.4	160.7	909.1
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	1380.5	226.9	1607.4
	% Fixture	54.9	9.0	63.9
Total	Lumens	2128.9	387.6	2516.5
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	0.7
10°-20°	58.6	2.3
20°-30°	125.6	5.0
30°-40°	216.5	8.6
40°-50°	314.3	12.5
50°-60°	386.8	15.4
60°-70°	400.8	15.9
70°-80°	349.4	13.9
80°-90°	260.4	10.3
90°-100°	172.2	6.8
100°-110°	105.1	4.2
110°-120°	60.2	2.4
120°-130°	31.8	1.3
130°-140°	14.1	0.6
140°-150°	3.9	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2128.9	84.6
0°-180°	2516.5	100.0

Coefficient of Utilization



REPORT NUMBER: P266307

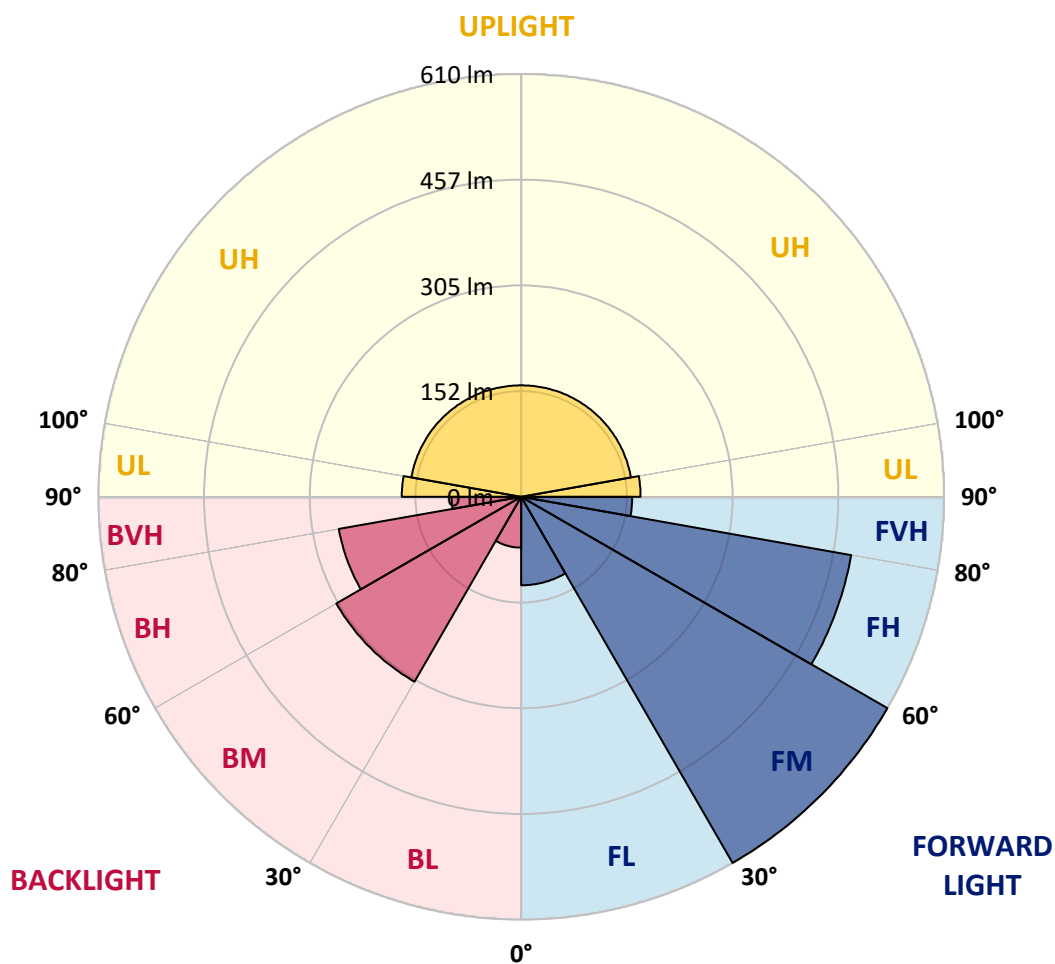
CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	127.5	5.1			
FM	(30°-60°)	609.7	24.2			
FH	(60°-80°)	483.2	19.2			G0/660
FVH	(80°-90°)	160.1	6.4			G2/225
BL	(0°-30°)	73.3	2.9	B0/110		
BM	(30°-60°)	307.8	12.2	B1/1000		
BH	(60°-80°)	266.9	10.6	B1/500		G1/500
BVH	(80°-90°)	100.3	4.0			G2/225
UL	(90°-100°)	172.2	6.8		U3/500	
UH	(100°-180°)	160.7	6.4		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





REPORT NUMBER: P266307

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1
2.5°	181.4	181.4	180.7	180.4	179.1	177.4	175.9	173.6	171.2	170.6	169.3
5°	197.1	197.1	196.5	194.8	192.5	189.6	185.9	182.4	177.9	176.8	173.3
7.5°	214.8	214.1	212.4	210.8	207.6	203.2	198.4	192.9	186.7	185.3	180.1
10°	232.4	232.4	230.8	228.2	224.2	218.6	212.8	205.9	197.7	196.1	189.3
12.5°	252.7	252.1	249.4	247.5	242.8	236.7	230.1	221.6	211.8	210.2	201.4
15°	274.3	274.0	271.6	267.3	262.1	256.2	249.4	240.2	229.7	227.2	217.4
17.5°	298.4	296.5	295.2	290.6	285.0	277.4	272.2	262.8	251.3	248.4	236.3
20°	320.6	321.0	318.0	314.0	308.8	303.6	296.1	287.6	275.2	271.3	257.5
22.5°	345.8	345.8	343.0	339.0	333.7	331.1	322.6	313.8	298.7	295.8	280.5
25°	372.0	371.0	368.0	364.4	361.8	358.6	350.7	340.3	324.8	322.0	304.6
27.5°	396.2	396.5	392.9	390.0	389.7	385.5	378.8	367.8	353.0	348.8	330.1
30°	421.0	421.3	418.7	415.1	415.5	412.9	407.3	395.9	381.8	376.8	356.9
32.5°	445.9	445.2	441.5	441.2	440.3	438.4	434.2	426.9	411.6	406.4	385.7
35°	468.0	468.0	464.5	465.9	463.9	463.4	462.2	456.7	443.0	437.7	415.5
37.5°	488.7	488.4	486.4	486.7	485.4	485.1	487.4	486.7	473.9	469.8	446.8
40°	507.6	505.7	503.9	505.3	503.9	505.9	511.6	515.4	504.7	501.4	478.2
42.5°	520.7	520.1	519.4	521.6	519.7	524.3	533.1	542.5	536.1	532.9	509.6
45°	531.2	529.9	531.2	533.5	532.2	538.1	553.7	568.1	568.1	563.5	539.6
47.5°	535.4	535.1	538.4	540.3	539.6	549.1	570.1	592.0	596.6	592.9	568.7
50°	534.4	534.4	539.6	542.5	543.3	555.7	582.1	610.8	621.4	618.5	594.6
52.5°	528.3	528.3	536.1	539.6	542.2	557.9	590.4	626.9	642.3	640.8	616.7
55°	516.4	516.2	526.2	530.9	536.4	555.7	593.6	637.3	658.6	657.3	635.8
57.5°	498.2	498.7	511.2	518.4	525.6	548.4	592.0	642.6	669.7	669.1	647.9
60°	474.9	478.2	492.4	500.4	511.2	537.0	585.1	641.7	674.0	674.4	654.3
61°	465.1	468.3	482.7	492.6	503.9	531.4	581.2	639.8	673.6	674.4	655.0
62.5°	449.4	451.4	468.3	480.1	492.6	521.3	573.3	634.5	671.5	672.4	654.1
65°	420.0	423.6	441.0	455.7	470.4	501.8	556.3	621.1	662.0	663.6	646.5
67.5°	387.7	391.9	411.9	428.9	445.9	479.2	535.4	601.8	645.0	646.9	632.1
70°	355.5	360.8	381.8	398.8	419.7	454.1	509.9	576.9	621.6	623.7	610.8
72.5°	322.9	328.8	350.3	370.0	391.2	426.2	481.5	547.4	592.6	595.2	583.4
75°	290.2	297.8	318.0	340.5	361.8	397.8	452.0	516.2	556.9	559.6	550.4
77.5°	260.9	267.3	287.3	310.9	334.1	368.3	420.0	478.8	521.3	522.6	514.5
80°	231.1	238.1	259.5	281.8	306.3	339.3	387.0	441.2	478.2	481.9	473.2
82.5°	204.6	211.6	231.8	255.9	279.5	311.3	353.4	402.7	435.4	439.4	433.4
85°	182.4	187.2	207.1	230.4	253.3	283.3	323.8	366.8	396.2	396.8	390.9
87.5°	160.2	165.4	184.3	206.9	230.1	257.5	292.2	329.1	353.0	355.3	349.4
90°	141.8	145.2	163.1	185.3	207.9	233.1	263.2	295.8	315.0	315.0	310.5
92.5°	125.9	127.5	145.4	166.6	188.3	209.8	236.3	261.4	278.1	277.8	272.6
95°	111.1	113.0	128.2	148.7	169.6	189.6	211.1	231.1	243.5	244.2	238.1
97.5°	98.1	99.4	113.5	133.7	152.4	170.9	189.0	205.0	213.1	213.4	208.9
100°	87.7	87.7	101.0	118.9	136.9	153.6	169.1	181.1	184.7	184.3	180.4
102.5°	78.4	77.9	89.2	106.5	123.2	137.6	150.0	157.9	160.8	159.9	157.3
105°	69.6	70.2	79.1	95.4	110.5	123.2	132.7	139.2	139.2	138.6	136.0
107.5°	63.2	62.7	69.6	84.7	99.1	110.1	117.7	120.9	120.0	118.9	117.4



REPORT NUMBER: P266307

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	56.6	56.6	61.8	75.8	88.3	98.4	103.7	105.6	102.6	102.2	102.0
112.5°	51.1	51.1	55.2	67.1	78.8	87.2	91.5	91.8	88.7	88.3	88.7
115°	46.7	46.7	49.0	59.5	70.2	77.9	81.3	79.8	76.4	76.1	77.2
117.5°	42.5	42.5	44.5	52.0	62.2	69.0	71.2	69.0	66.0	66.0	67.4
120°	38.8	38.8	39.5	45.5	54.5	60.5	62.2	59.5	57.2	57.2	58.5
122.5°	35.7	35.4	35.7	39.5	47.2	52.6	53.3	51.1	49.3	49.6	51.7
125°	32.3	32.3	32.0	34.3	40.6	45.2	45.8	43.2	43.2	43.2	44.7
127.5°	29.5	29.5	28.7	29.7	34.3	38.3	38.3	36.3	36.9	37.5	38.8
130°	26.8	26.8	26.1	26.1	28.4	31.7	31.7	30.5	32.0	32.3	33.6
132.5°	24.2	23.9	23.1	22.2	23.1	25.2	25.2	24.9	27.5	27.8	28.7
135°	21.6	21.2	20.7	19.0	18.7	19.3	19.3	20.2	22.8	23.1	24.6
137.5°	18.7	18.7	17.6	16.0	14.1	14.1	14.1	16.0	18.7	19.3	19.9
140°	16.0	16.0	15.0	13.0	10.5	9.5	9.8	12.4	15.0	15.5	16.0
142.5°	13.0	13.0	12.0	10.2	7.5	5.6	6.2	8.9	11.0	11.8	12.4
145°	10.2	10.2	9.2	7.1	4.6	3.0	3.7	6.2	7.8	8.2	8.9
147.5°	7.5	7.5	6.6	4.9	2.6	1.0	1.9	3.7	5.2	5.6	6.2
150°	4.9	4.9	4.2	2.6	1.3	0.0	0.7	1.9	3.0	3.2	3.7
152.5°	2.6	2.6	1.9	1.3	0.3	0.0	0.0	0.7	1.3	1.3	1.6
155°	1.3	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.7
157.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	0.3	0.3	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: P266307

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1
2.5°	168.1	166.6	164.1	162.1	159.9	157.9	156.2	155.0	154.6	153.6	154.0
5°	170.9	168.6	163.9	159.4	155.0	151.1	147.7	145.4	143.8	143.2	142.6
7.5°	176.4	172.6	165.4	158.6	152.1	146.2	140.9	137.6	134.9	133.7	133.7
10°	184.3	179.4	169.3	160.2	151.1	143.2	136.6	131.4	128.2	126.5	126.8
12.5°	195.1	188.6	176.2	163.9	152.6	142.6	133.7	128.2	124.2	122.3	122.3
15°	210.6	203.2	186.7	170.6	155.5	143.2	133.7	127.5	124.5	123.2	122.9
17.5°	229.2	219.6	200.7	181.4	162.5	147.1	137.6	131.7	127.5	125.9	125.6
20°	248.1	237.3	215.1	193.6	172.2	155.5	144.2	136.4	130.8	128.5	128.2
22.5°	269.8	257.3	231.1	205.6	182.7	166.6	150.6	140.6	133.9	131.1	130.8
25°	291.9	278.1	248.7	219.9	196.8	177.4	158.9	144.7	136.9	133.4	132.9
27.5°	315.5	300.8	267.1	234.4	210.2	187.7	166.4	148.7	139.5	135.6	135.4
30°	341.5	323.8	287.0	251.0	223.6	197.1	173.6	153.3	142.2	137.6	136.9
32.5°	368.8	349.1	307.3	268.8	236.1	205.6	179.4	158.2	144.7	139.5	139.2
35°	397.1	375.2	328.2	286.0	247.2	213.1	184.7	162.5	146.8	141.3	140.6
37.5°	426.9	402.7	350.1	302.4	258.0	219.6	189.0	166.0	148.7	142.2	141.6
40°	456.7	428.9	371.7	319.0	267.8	225.2	192.5	168.6	150.0	143.2	142.6
42.5°	485.4	457.0	393.5	334.3	276.1	229.4	195.1	170.9	151.4	143.8	142.8
45°	513.6	483.7	414.5	347.5	283.3	232.8	196.8	172.2	153.0	143.8	142.8
47.5°	541.6	508.9	435.0	359.0	288.6	235.0	197.4	173.0	154.0	143.5	142.6
50°	567.1	531.4	452.7	369.1	292.6	235.6	197.1	172.6	154.2	142.8	141.6
52.5°	588.0	551.4	467.4	376.2	294.9	235.4	196.1	171.9	154.0	141.6	140.6
55°	606.0	566.8	478.2	380.8	294.9	233.6	194.6	170.6	152.6	139.9	138.6
57.5°	617.8	578.1	485.4	382.8	293.6	230.8	191.6	168.3	151.4	137.6	136.4
60°	624.6	583.8	488.4	381.5	290.0	226.8	188.3	165.7	149.4	134.9	133.7
61°	625.3	584.4	488.4	380.2	288.3	225.2	186.9	164.7	148.4	133.9	132.4
62.5°	624.6	583.8	486.7	377.2	285.0	222.3	184.3	162.5	146.5	131.7	130.8
65°	618.2	577.6	480.1	369.7	277.8	216.4	179.8	158.9	143.2	128.5	126.8
67.5°	604.1	565.2	468.3	359.2	269.3	209.6	174.5	154.6	139.5	124.5	122.6
70°	583.8	546.9	453.7	347.1	259.9	201.9	168.6	149.7	134.9	120.6	117.9
72.5°	558.7	524.6	433.2	331.7	248.7	194.2	162.5	144.4	130.1	116.1	112.7
75°	527.2	496.3	410.3	314.8	236.3	185.1	155.9	138.6	124.5	111.1	107.5
77.5°	492.6	464.9	385.5	296.1	223.9	176.2	148.7	132.1	118.7	105.6	102.0
80°	454.7	430.5	357.3	276.6	210.8	167.1	141.6	125.9	112.7	100.0	95.8
82.5°	415.7	394.1	329.1	256.6	196.8	157.6	133.7	118.9	106.2	94.1	89.7
85°	376.2	357.5	300.8	236.1	182.7	148.1	126.5	112.1	99.4	87.9	84.0
87.5°	337.0	321.0	271.6	216.4	170.0	138.9	118.9	105.2	92.9	81.7	77.9
90°	300.5	286.6	244.8	198.0	157.3	129.4	111.5	98.4	86.2	75.2	72.6
92.5°	265.8	254.0	218.9	178.9	144.4	120.4	103.9	91.2	79.1	69.0	67.4
95°	234.4	223.3	195.6	161.9	132.7	112.1	96.7	84.7	72.6	63.2	61.8
97.5°	203.6	196.8	173.6	145.4	121.4	103.2	89.7	78.2	66.4	57.5	56.9
100°	178.1	170.9	152.4	130.4	110.9	95.4	82.7	71.5	60.5	52.3	52.0
102.5°	155.0	150.0	134.3	117.7	100.7	87.0	75.8	65.3	54.5	47.4	47.4
105°	135.4	130.8	118.9	104.7	90.9	79.8	69.0	58.7	48.7	42.5	42.8
107.5°	116.7	113.7	103.9	92.4	81.7	72.3	62.4	52.6	42.8	37.9	38.3



REPORT NUMBER: P266307

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	101.7	98.8	91.2	82.7	73.5	65.3	56.2	46.7	37.3	34.3	34.3
112.5°	88.3	86.2	80.0	73.2	66.0	58.7	50.7	41.2	32.7	30.5	30.7
115°	77.2	75.5	70.2	65.0	59.2	53.0	45.2	35.9	28.4	27.5	27.5
117.5°	67.1	66.0	61.8	57.2	52.6	47.2	39.9	31.0	24.6	24.6	24.6
120°	58.5	57.5	54.3	50.3	46.4	41.5	34.3	26.5	21.6	21.6	21.9
122.5°	51.4	50.7	47.4	44.5	40.9	35.9	29.5	22.2	19.0	19.3	19.3
125°	44.7	44.1	41.9	38.5	35.4	30.7	24.9	18.3	16.3	17.0	17.0
127.5°	38.8	38.5	36.3	33.3	30.1	26.1	20.2	15.5	14.5	15.0	15.0
130°	34.0	33.6	31.4	28.4	25.5	21.2	16.3	12.8	12.4	13.0	13.0
132.5°	29.0	28.7	26.8	23.9	20.9	17.0	12.8	10.2	10.8	11.5	11.5
135°	24.6	24.2	22.8	19.7	17.0	13.5	9.8	8.5	9.2	9.8	9.8
137.5°	20.2	19.9	18.7	15.7	12.8	9.8	7.1	6.8	7.5	8.2	8.2
140°	16.3	16.0	14.7	12.0	9.2	6.8	4.9	5.6	6.2	6.8	6.8
142.5°	12.4	12.4	11.5	9.2	6.2	4.2	3.2	4.2	4.9	5.6	5.6
145°	9.2	9.2	7.8	6.2	3.7	2.2	1.9	3.0	4.0	4.2	4.2
147.5°	6.2	6.2	5.2	4.0	1.9	1.0	1.3	1.9	2.6	3.0	3.2
150°	3.7	3.7	3.0	1.9	1.0	0.3	0.3	1.3	1.6	1.9	1.9
152.5°	1.6	1.6	1.3	0.7	0.3	0.3	0.3	0.3	1.0	1.0	1.0
155°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.0	0.3	0.3	0.3
157.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.3	0.3	0.3	0.3	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)