

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: P240265

Luminaire Tested: **UTLD-AF24-50-D-U-SL3-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-SL3-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4708.6 lumens
Efficiency: N/A
Efficacy: 87.2 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 - G3

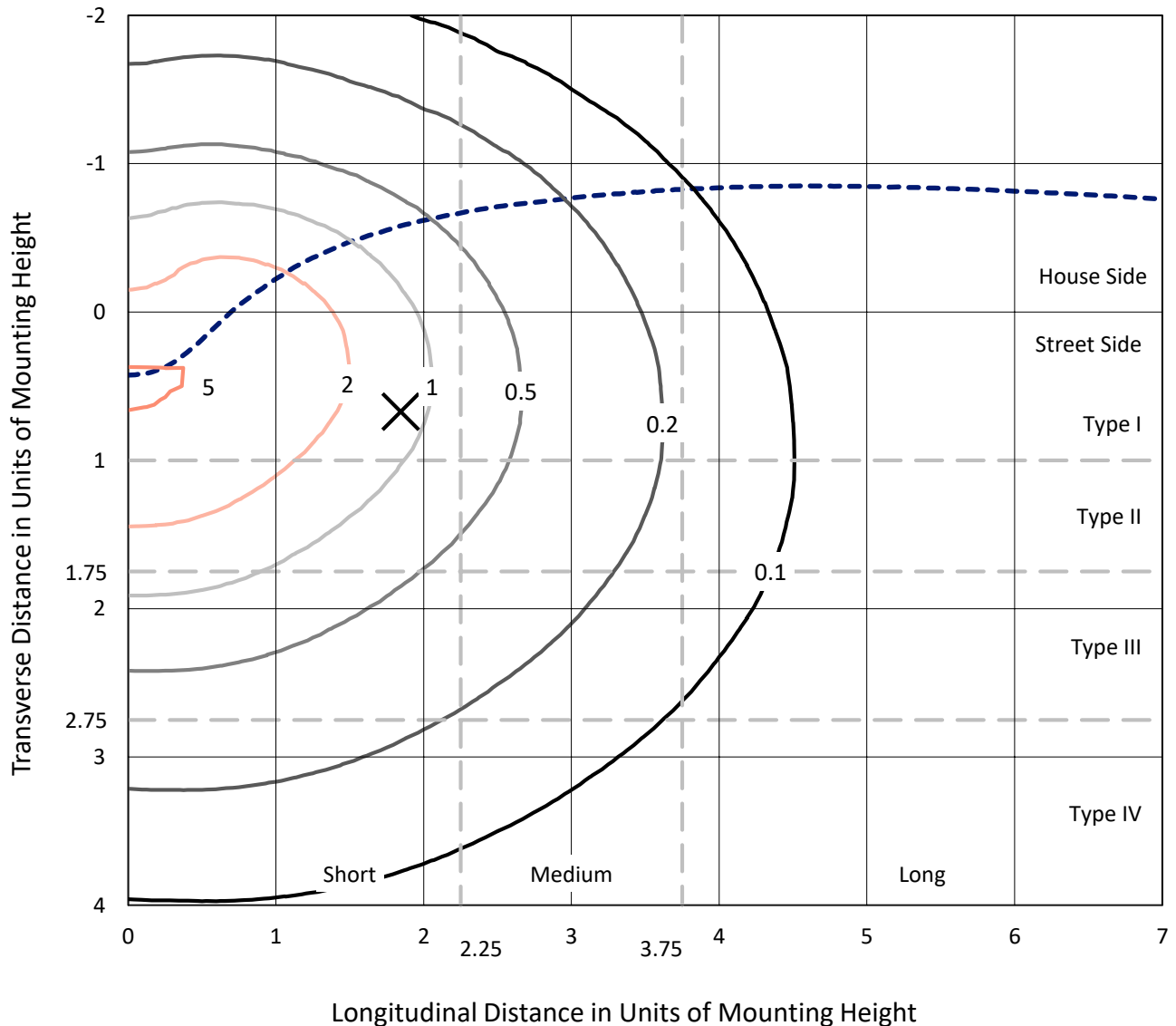
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P240265
 CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-FP

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

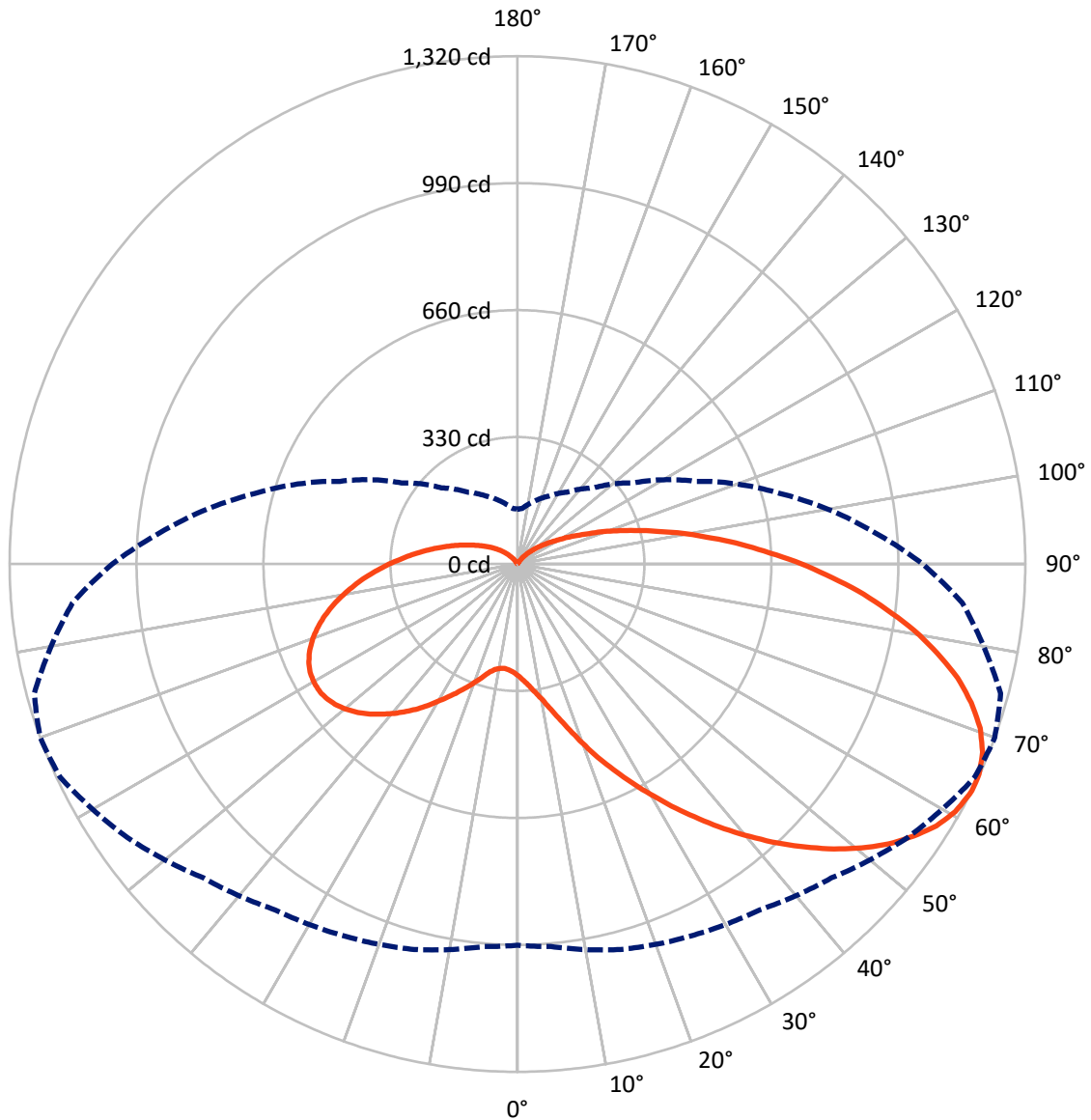


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P240265

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-FP

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P240265

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-FP

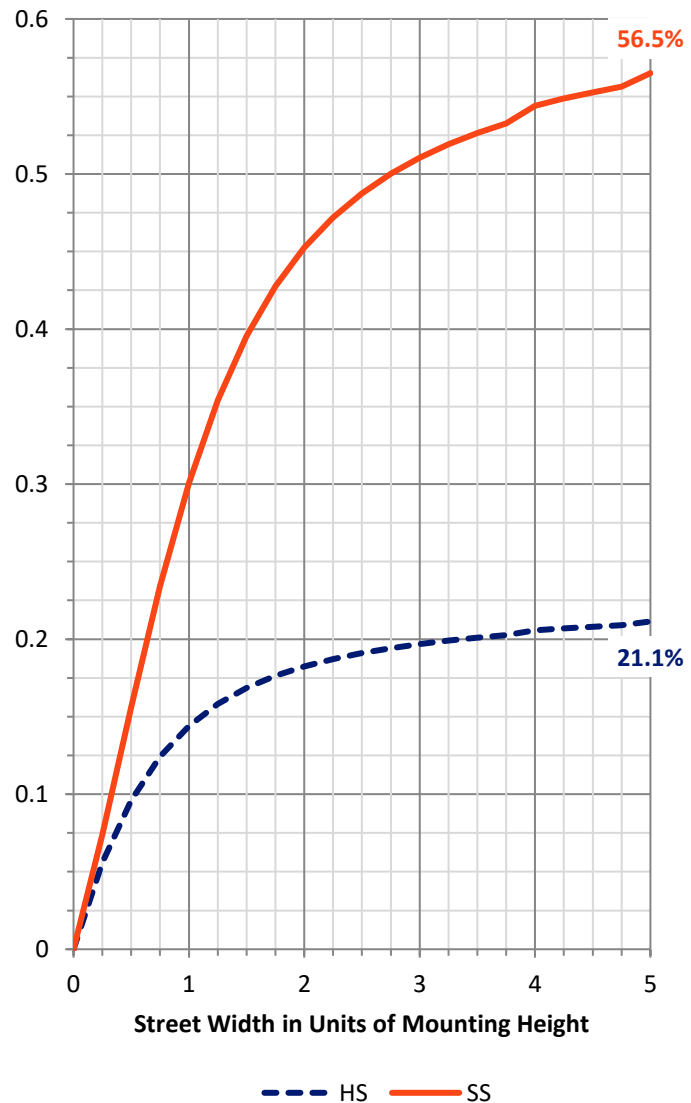
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1057.6	255.9	1313.5
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	2858.7	536.5	3395.2
	% Fixture	60.7	11.4	72.1
Total	Lumens	3916.2	792.4	4708.6
	% Fixture	83.2	16.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	0.6
10°-20°	100.6	2.1
20°-30°	213.7	4.5
30°-40°	368.5	7.8
40°-50°	543.6	11.5
50°-60°	691.9	14.7
60°-70°	751.0	15.9
70°-80°	686.8	14.6
80°-90°	531.3	11.3
90°-100°	358.0	7.6
100°-110°	217.8	4.6
110°-120°	122.0	2.6
120°-130°	62.1	1.3
130°-140°	25.7	0.5
140°-150°	6.4	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3916.2	83.2
0°-180°	4708.6	100.0



REPORT NUMBER: P240265

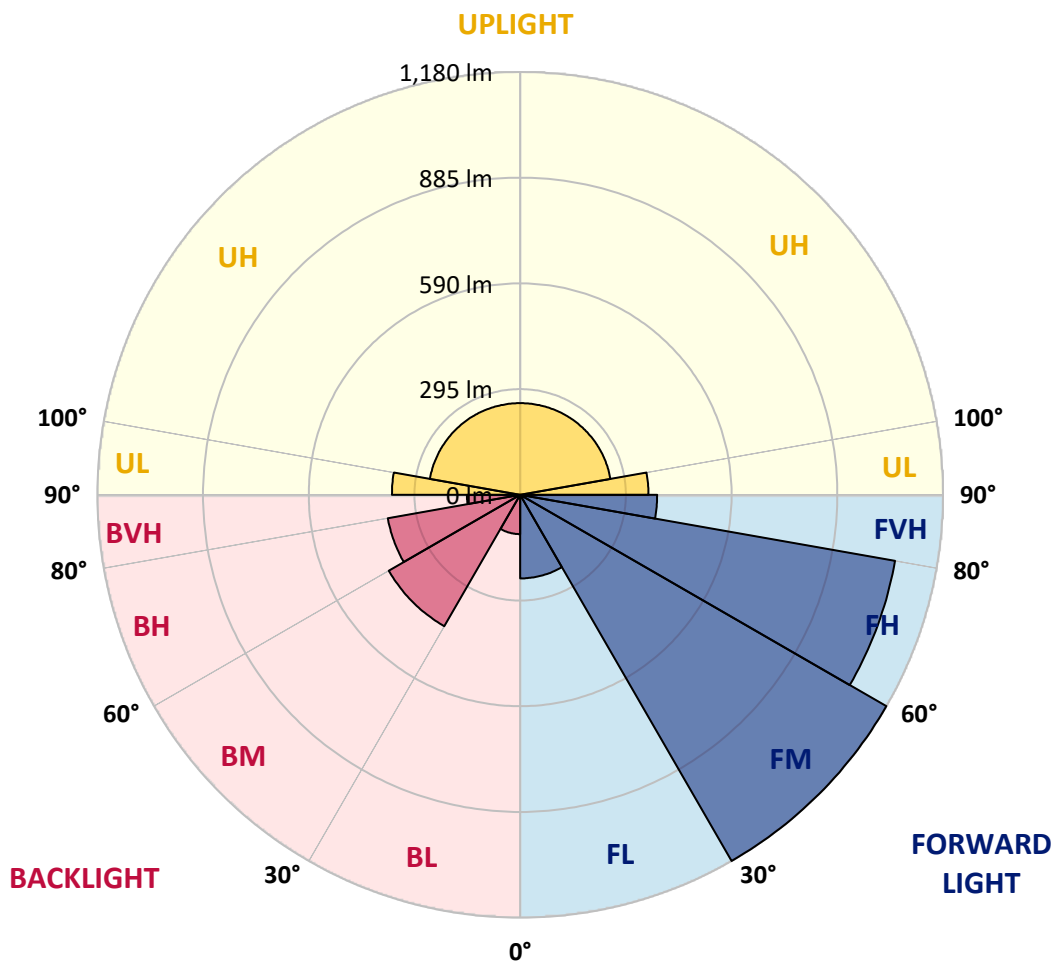
CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-FP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.3	5.0			
FM	(30°-60°)	1180.4	25.1			
FH	(60°-80°)	1062.5	22.6			G1/1800
FVH	(80°-90°)	382.5	8.1			G3/500
BL	(0°-30°)	109.8	2.3	B0/110		
BM	(30°-60°)	423.6	9.0	B1/1000		
BH	(60°-80°)	375.3	8.0	B1/500		G1/500
BVH	(80°-90°)	148.8	3.2			G2/225
UL	(90°-100°)	358.0	7.6		U3/500	
UH	(100°-180°)	255.9	5.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P240265

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-FP

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	323.9	323.3	322.5	319.4	318.0	313.6	309.7	305.2	302.7	300.1	295.0
5°	357.8	356.6	354.7	351.4	345.7	339.2	331.5	322.5	318.0	312.9	302.7
7.5°	391.2	390.6	389.9	383.5	377.8	367.4	356.6	343.7	337.4	329.0	313.6
10°	427.8	429.0	425.1	419.4	409.8	398.8	384.7	367.4	359.2	350.2	329.6
12.5°	469.4	468.8	465.5	455.9	445.7	433.5	416.2	397.6	388.0	375.8	349.5
15°	511.8	509.2	505.3	498.9	486.1	472.0	453.4	432.2	421.4	407.9	378.4
17.5°	556.0	554.1	551.5	540.6	529.7	512.4	497.1	473.9	460.4	445.7	411.7
20°	600.3	598.9	595.8	587.5	574.0	558.5	543.8	519.5	504.1	486.1	447.6
22.5°	647.1	646.4	643.2	633.6	622.7	613.1	594.4	566.9	552.2	530.4	485.5
25°	695.2	695.8	690.1	681.1	673.4	664.4	645.2	616.3	598.3	575.9	525.2
27.5°	747.2	744.5	740.7	732.3	726.0	715.7	695.8	666.4	649.0	624.6	568.1
30°	795.2	795.9	787.5	782.4	777.9	768.2	749.7	719.5	700.3	677.8	613.1
32.5°	847.2	844.5	838.8	833.7	830.5	820.2	802.9	776.6	757.4	729.2	658.6
35°	892.7	892.0	885.7	886.9	878.6	870.2	857.4	833.1	813.1	786.2	709.3
37.5°	939.5	938.3	933.7	935.0	925.4	919.0	910.6	889.5	872.8	845.3	761.9
40°	983.8	980.5	977.3	979.3	972.2	967.7	963.2	948.5	931.2	902.3	813.9
42.5°	1019.7	1019.1	1017.1	1020.3	1013.2	1012.0	1014.6	1006.9	991.4	962.0	866.4
45°	1050.5	1050.5	1053.0	1055.0	1048.5	1050.5	1063.3	1061.3	1049.1	1019.7	920.9
47.5°	1074.8	1074.2	1080.5	1083.2	1079.9	1087.0	1108.2	1117.2	1106.8	1079.3	971.6
50°	1088.9	1088.9	1100.5	1103.7	1104.3	1117.8	1147.2	1167.2	1160.1	1133.8	1019.7
52.5°	1092.8	1094.0	1110.1	1117.2	1119.7	1140.9	1181.3	1211.4	1208.8	1183.9	1063.3
55°	1086.4	1088.3	1109.5	1120.3	1128.0	1157.6	1208.2	1250.6	1248.6	1225.5	1099.2
57.5°	1068.4	1070.9	1097.9	1113.9	1128.0	1166.6	1228.1	1281.3	1283.9	1262.1	1130.0
60°	1040.2	1043.4	1076.1	1097.2	1119.1	1165.9	1238.4	1301.2	1306.9	1284.5	1150.5
62.5°	1001.1	1004.9	1042.8	1072.3	1101.7	1156.9	1239.0	1310.8	1318.5	1298.6	1160.1
63°	990.8	997.9	1037.0	1066.5	1097.2	1153.7	1238.4	1311.4	1319.8	1300.0	1160.7
65°	951.0	958.7	1003.6	1038.3	1075.4	1139.0	1229.4	1308.3	1318.5	1299.2	1157.6
67.5°	895.3	905.5	953.0	995.3	1042.8	1112.7	1209.5	1292.2	1303.8	1285.1	1143.5
70°	831.8	845.9	895.9	948.5	1001.1	1077.4	1178.7	1264.7	1275.5	1256.3	1115.2
72.5°	767.6	783.1	837.5	894.0	953.0	1033.8	1135.8	1222.9	1233.3	1216.6	1076.1
75°	702.9	714.4	770.8	836.3	900.4	983.2	1088.3	1169.7	1181.3	1161.4	1027.3
77.5°	634.2	650.3	708.6	774.7	843.3	931.2	1031.9	1108.8	1115.8	1096.0	964.5
80°	566.9	584.8	641.9	713.1	785.6	870.2	966.5	1041.5	1045.4	1024.2	897.1
82.5°	507.9	524.6	583.0	651.5	724.7	811.2	899.1	963.2	965.8	945.9	827.3
85°	450.8	465.5	521.4	591.9	665.6	745.8	829.8	884.3	887.5	863.9	753.5
87.5°	399.6	411.1	464.9	535.5	607.3	686.2	756.1	801.6	802.3	779.2	680.5
90°	355.3	362.3	414.9	484.2	552.2	622.7	688.1	727.8	722.7	698.4	604.8
92.5°	312.3	318.0	366.2	433.5	500.8	564.4	621.4	647.1	641.3	620.1	537.5
95°	277.7	280.3	324.5	388.0	448.3	508.5	557.3	575.9	570.1	547.7	470.8
97.5°	242.4	246.2	286.6	344.4	402.7	457.3	497.1	509.2	498.3	476.5	412.4
100°	216.1	217.4	251.3	306.6	361.7	409.2	440.6	448.3	436.7	416.9	359.2
102.5°	191.7	191.1	221.9	273.2	322.5	362.3	389.2	388.6	376.4	359.2	311.7
105°	170.6	169.9	193.6	241.1	285.4	320.7	340.5	338.0	325.8	309.1	271.3
107.5°	150.7	152.0	169.3	211.0	250.7	282.1	297.0	291.1	280.3	264.8	235.4



REPORT NUMBER: P240265

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-FP

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	136.0	136.0	149.5	185.4	221.9	247.6	259.1	250.7	240.5	225.0	203.3
112.5°	122.4	122.4	132.1	161.6	195.0	218.1	225.8	214.8	202.6	192.4	176.4
115°	110.3	110.3	116.7	140.5	169.9	189.1	193.6	182.1	171.9	164.2	154.0
117.5°	100.0	100.0	103.9	120.6	146.9	164.8	167.4	154.6	147.5	139.8	134.0
120°	90.4	91.0	92.4	103.2	125.0	140.5	141.7	129.5	123.8	119.9	116.7
122.5°	82.0	82.0	82.8	89.1	106.5	119.3	119.3	109.0	105.2	103.9	101.4
125°	74.4	74.4	74.4	76.9	88.5	98.7	97.5	91.0	89.1	89.1	87.9
127.5°	67.3	66.7	66.1	66.7	72.4	79.5	79.5	75.0	75.0	75.7	76.3
130°	60.3	59.6	58.3	57.1	57.7	62.8	62.2	61.0	62.2	64.1	65.4
132.5°	53.2	53.2	51.4	48.1	46.1	47.5	48.1	48.7	50.6	53.2	55.1
135°	46.1	46.1	44.3	39.8	35.9	35.3	34.7	37.8	41.0	43.6	45.5
137.5°	39.1	39.1	37.2	32.0	26.9	24.3	23.7	28.8	32.0	34.7	36.5
140°	32.7	32.0	30.2	25.0	19.2	15.3	15.3	20.6	23.7	26.3	28.8
142.5°	25.7	25.7	23.7	19.2	12.8	9.0	9.6	14.1	16.7	18.6	20.6
145°	19.2	19.2	17.3	12.8	7.7	4.5	5.1	9.0	10.9	12.8	14.7
147.5°	13.5	13.5	11.6	8.3	3.9	1.3	2.6	5.1	6.4	7.7	9.0
150°	8.3	8.3	7.1	4.5	1.9	0.0	0.6	2.6	3.2	3.9	5.1
152.5°	4.5	4.5	3.2	1.9	0.6	0.0	0.0	0.6	1.3	1.9	2.6
155°	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.6
157.5°	0.6	0.6	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: P240265

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-FP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	292.5	289.9	284.1	279.0	274.5	270.0	266.2	262.9	262.3	260.3	261.1
5°	297.0	291.7	280.9	271.3	261.1	252.7	246.2	240.5	236.0	234.1	233.4
7.5°	305.9	297.6	280.9	265.5	251.3	238.6	227.7	219.3	214.2	211.0	211.6
10°	318.8	307.8	285.4	264.2	244.4	227.0	212.9	202.6	195.0	191.7	191.7
12.5°	335.4	322.5	293.7	266.2	241.1	219.3	201.4	188.5	181.5	177.0	177.0
15°	362.3	343.7	307.8	272.5	241.1	214.8	195.0	180.9	174.4	171.2	170.6
17.5°	391.2	370.7	327.8	285.4	246.9	214.2	194.4	182.1	174.4	170.6	170.6
20°	422.6	398.2	348.8	300.1	256.6	221.9	199.5	184.7	175.0	169.9	169.3
22.5°	456.6	429.6	371.3	315.5	268.0	234.7	205.8	186.6	175.0	169.9	169.3
25°	494.4	461.8	394.4	332.9	283.5	246.2	213.6	189.1	175.0	168.7	168.1
27.5°	533.0	496.3	420.0	349.5	299.5	257.2	220.7	191.1	175.0	168.1	167.4
30°	574.6	531.0	445.1	368.8	314.3	266.8	226.4	193.0	175.0	167.4	166.7
32.5°	615.6	568.9	472.0	390.6	328.4	274.5	231.5	196.9	175.7	166.7	165.4
35°	661.1	609.3	500.8	412.4	341.2	281.5	236.0	199.5	175.0	165.4	164.8
37.5°	708.6	649.0	527.1	431.6	351.4	286.6	238.6	201.4	175.0	164.8	163.6
40°	756.1	689.4	555.4	450.8	361.1	291.1	241.1	203.3	174.4	163.6	162.2
42.5°	802.3	729.2	583.0	466.9	368.8	294.4	242.4	204.6	174.4	162.2	161.0
45°	849.8	769.6	611.8	482.2	374.5	295.6	242.4	204.6	175.0	161.0	159.7
47.5°	895.3	807.4	638.1	494.4	379.0	296.2	242.4	204.6	175.0	159.7	157.7
50°	935.7	842.0	659.9	504.7	381.6	296.2	241.7	204.6	175.0	157.7	155.8
52.5°	974.8	872.2	680.5	511.8	382.9	295.0	240.5	203.3	175.0	155.8	154.0
55°	1006.2	899.1	694.5	516.3	381.6	293.1	237.9	202.0	174.4	154.0	151.4
57.5°	1031.2	918.3	705.4	517.5	379.0	289.9	235.4	200.1	173.2	151.4	149.5
60°	1047.2	929.2	708.6	515.0	375.1	285.4	232.1	198.1	171.2	148.7	146.2
62.5°	1053.0	933.1	707.4	509.8	369.4	280.9	228.9	195.6	169.3	145.6	143.0
63°	1053.0	932.4	706.8	508.5	367.4	279.6	228.3	195.0	168.7	145.0	142.4
65°	1049.1	927.3	700.3	500.8	361.7	275.1	225.0	192.4	167.4	143.0	139.8
67.5°	1033.2	913.8	685.6	489.3	352.1	268.7	219.9	188.5	164.2	139.8	136.6
70°	1007.5	890.8	665.6	473.9	341.8	261.7	214.8	184.7	161.0	136.6	132.8
72.5°	969.7	858.7	640.7	455.9	329.6	254.0	209.1	180.2	156.5	132.8	128.3
75°	922.8	819.6	611.1	435.5	317.4	245.0	203.3	175.0	152.0	128.9	123.2
77.5°	867.7	774.1	577.1	414.3	303.3	236.0	196.2	169.3	147.5	125.0	118.0
80°	806.1	720.2	540.6	390.6	288.6	226.4	189.1	163.6	141.1	119.9	112.8
82.5°	744.5	666.4	502.2	366.2	273.8	216.8	181.5	157.1	135.3	114.8	107.7
85°	677.8	609.9	464.3	341.2	258.4	205.8	173.8	150.1	129.5	109.7	102.0
87.5°	613.8	552.8	422.6	316.8	243.7	196.2	166.1	143.0	122.4	103.2	97.5
90°	551.5	498.3	386.7	291.7	227.7	185.4	157.7	135.3	115.4	96.9	92.4
92.5°	491.2	443.1	347.6	268.7	212.9	175.0	148.7	127.7	108.3	91.0	87.3
95°	434.8	395.1	314.9	245.6	198.8	164.8	140.5	120.6	100.7	84.0	81.4
97.5°	381.6	349.5	282.8	225.8	183.4	154.6	131.4	112.2	93.0	77.6	76.3
100°	336.7	309.1	252.7	205.2	169.9	144.3	123.2	103.9	85.3	71.2	71.2
102.5°	294.4	270.0	224.4	186.0	156.5	133.4	113.5	95.5	77.6	65.4	65.4
105°	257.2	237.3	200.7	168.7	143.6	123.2	104.5	87.3	69.3	59.6	59.6
107.5°	223.2	207.8	178.3	152.6	130.8	112.2	95.5	78.3	61.0	53.9	54.5



REPORT NUMBER: P240265

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-FP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	195.6	183.4	158.4	136.6	118.7	103.2	87.3	69.9	53.2	48.7	48.7
112.5°	169.3	159.7	139.8	123.2	107.7	93.6	78.3	61.6	46.9	44.3	44.3
115°	148.1	140.5	123.8	109.7	96.9	84.0	69.3	53.2	40.4	39.1	39.8
117.5°	129.5	123.2	110.3	98.7	87.3	75.0	61.6	45.5	35.3	35.3	35.3
120°	112.8	108.3	96.9	87.3	77.6	66.1	53.2	38.5	30.8	30.8	31.4
122.5°	99.4	94.9	86.5	76.9	68.0	57.7	45.5	32.0	26.9	27.6	28.2
125°	85.9	83.4	75.7	67.3	59.0	48.7	37.8	26.3	23.7	24.3	25.0
127.5°	75.0	73.1	65.4	58.3	50.6	41.0	30.8	21.2	19.8	21.2	21.8
130°	64.1	62.8	57.1	50.0	42.4	34.0	24.3	17.3	17.3	18.6	18.6
132.5°	54.5	53.2	48.1	41.0	34.7	26.3	18.6	14.1	14.7	16.1	16.1
135°	45.5	44.3	39.8	34.0	26.9	19.8	14.1	11.6	12.8	13.5	13.5
137.5°	37.2	35.9	32.0	26.3	19.8	14.1	10.2	9.0	10.2	11.6	11.6
140°	28.2	28.2	25.0	19.8	14.1	9.6	7.1	7.1	8.3	9.0	9.0
142.5°	21.2	20.6	18.6	14.1	9.0	5.7	4.5	5.1	6.4	7.1	7.1
145°	14.7	14.1	12.8	9.6	5.1	3.2	2.6	3.9	4.5	5.1	5.1
147.5°	9.6	9.0	8.3	5.7	2.6	1.3	1.3	2.6	3.2	3.9	3.9
150°	5.1	5.1	4.5	2.6	1.3	0.0	0.6	1.3	1.9	1.9	1.9
152.5°	2.6	2.6	1.9	1.3	0.6	0.0	0.0	0.0	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.6	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	0.6	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)