

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: P240480

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T4W-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4064.2 lumens
Efficiency: N/A
Efficacy: 101.6 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 - U3 - G3

Input Watts (W): 40
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



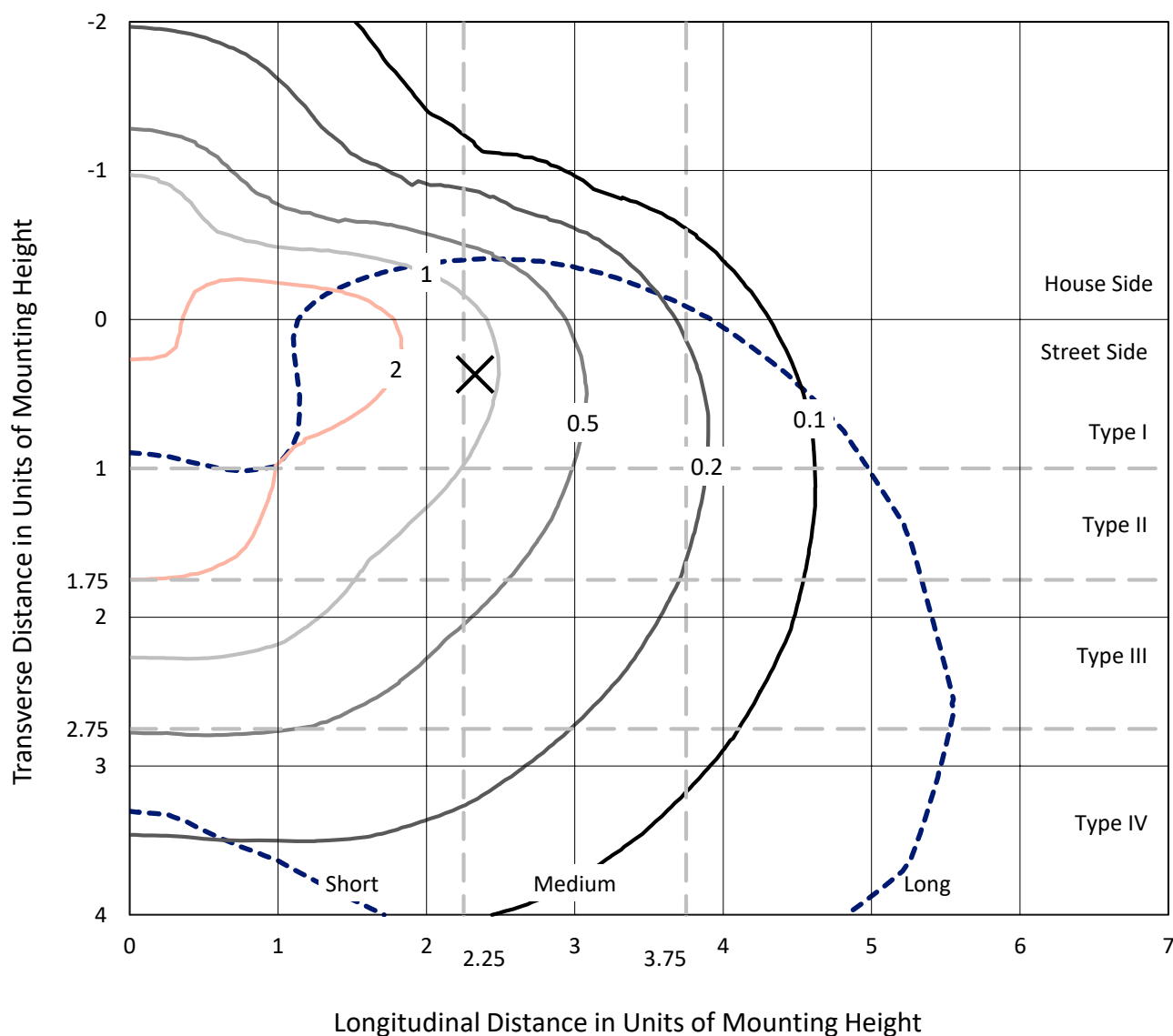
REPORT NUMBER: P240480

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

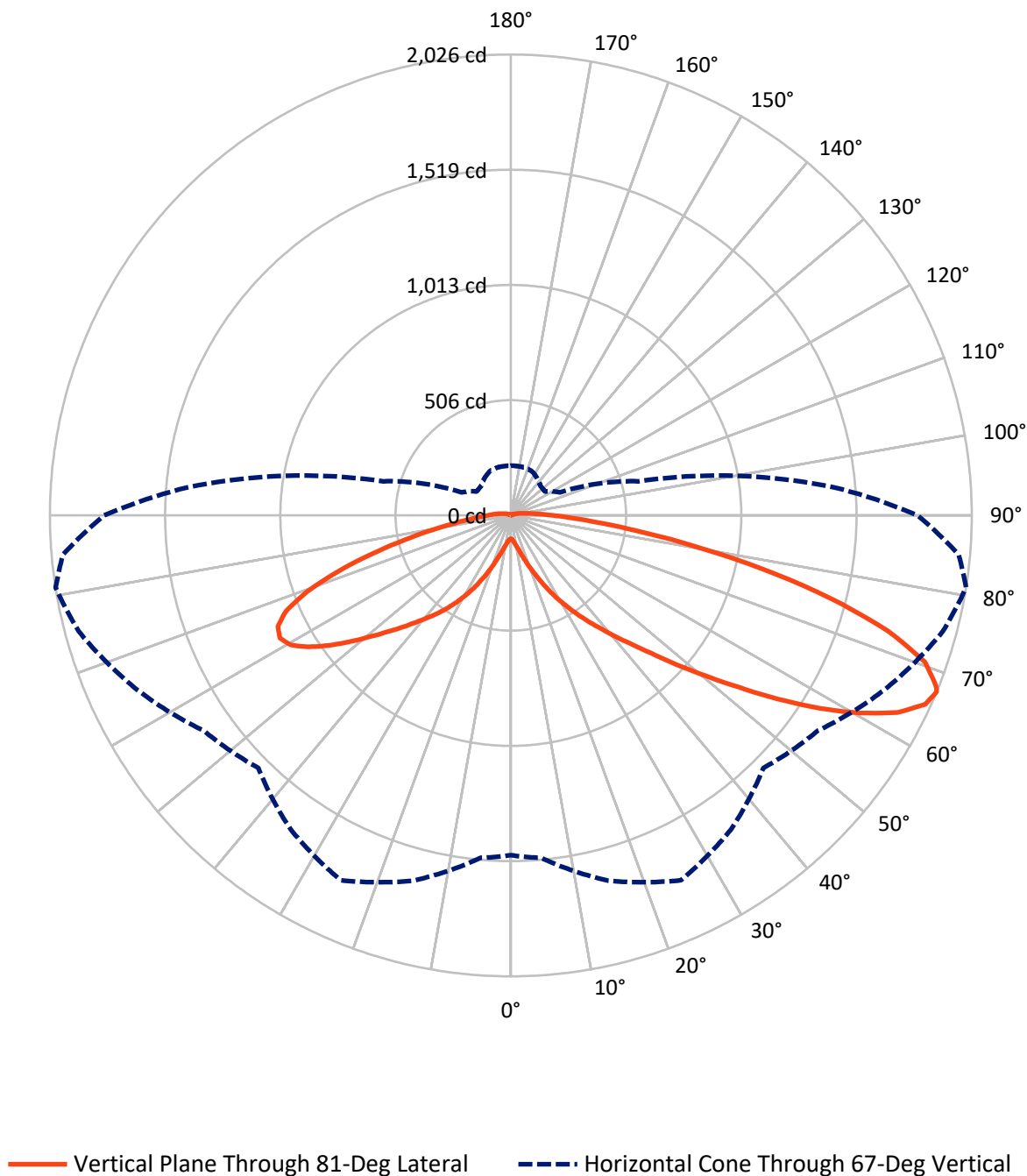


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240480

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL

Luminous Intensity Polar Plot



REPORT NUMBER: P240480

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL

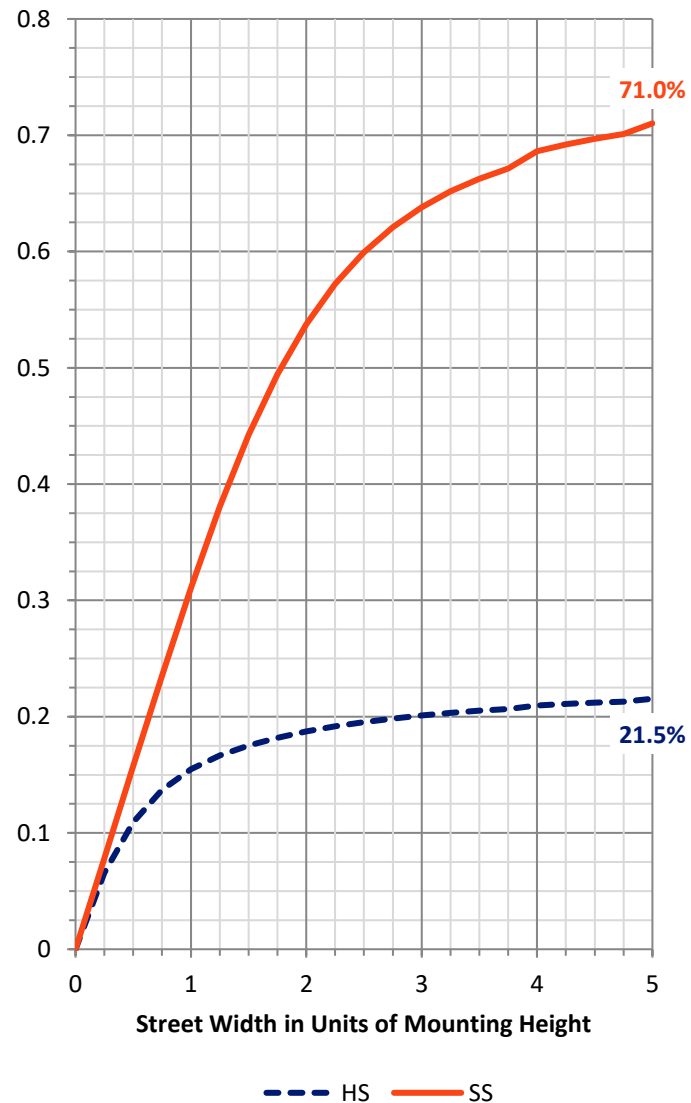
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	923.6	74.3	998.0
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	2981.3	84.9	3066.2
	% Fixture	73.4	2.1	75.4
Total	Lumens	3905.0	159.2	4064.2
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.3
10°-20°	51.3	1.3
20°-30°	138.6	3.4
30°-40°	278.2	6.8
40°-50°	470.2	11.6
50°-60°	751.8	18.5
60°-70°	1027.2	25.3
70°-80°	846.7	20.8
80°-90°	329.6	8.1
90°-100°	94.9	2.3
100°-110°	36.3	0.9
110°-120°	15.7	0.4
120°-130°	7.5	0.2
130°-140°	3.5	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3905.0	96.1
0°-180°	4064.2	100.0

Coefficient of Utilization



REPORT NUMBER: P240480

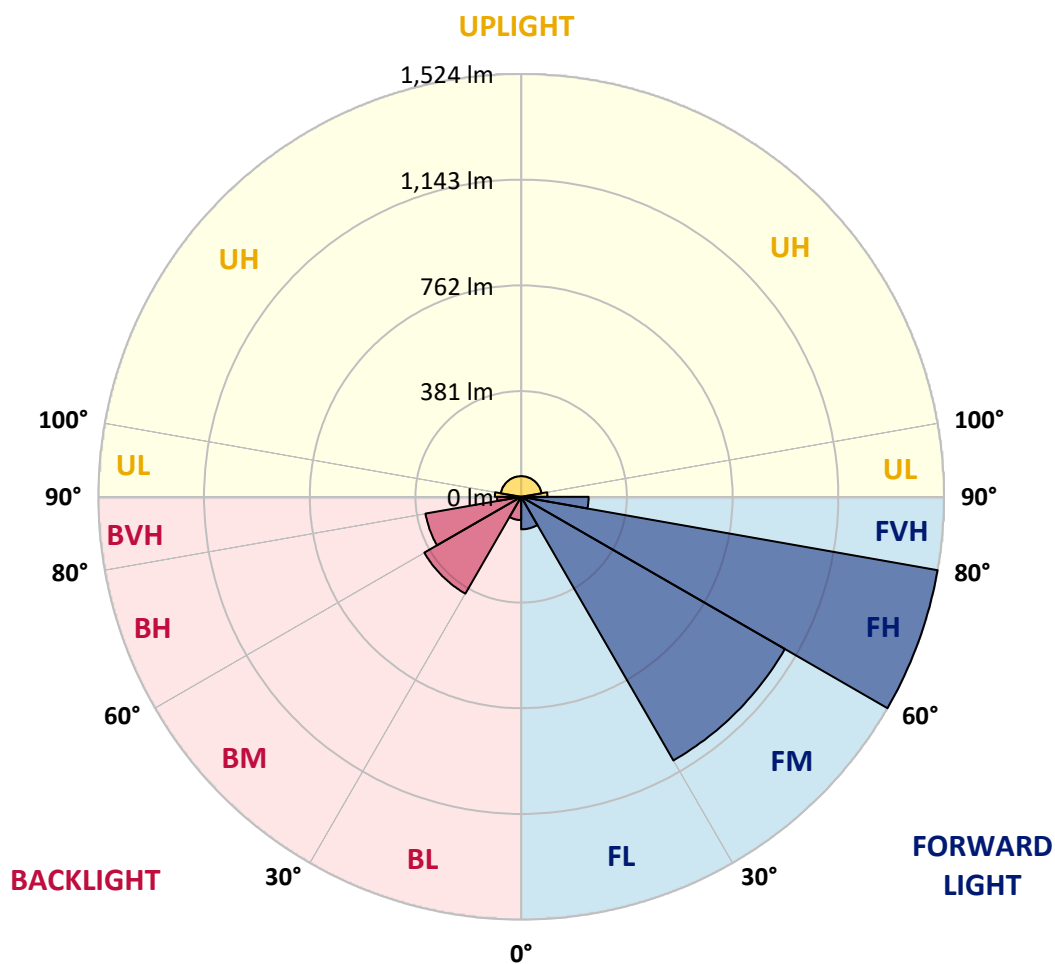
CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	117.4	2.9			
FM	(30°-60°)	1097.2	27.0			
FH	(60°-80°)	1523.9	37.5			G1/1800
FVH	(80°-90°)	242.8	6.0			G3/500
BL	(0°-30°)	83.9	2.1	B0/110		
BM	(30°-60°)	402.9	9.9	B1/1000		
BH	(60°-80°)	350.0	8.6	B1/500		G1/500
BVH	(80°-90°)	86.8	2.1			G1/100
UL	(90°-100°)	94.9	2.3		U3/500	
UH	(100°-180°)	74.3	1.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium



REPORT NUMBER: P240480

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9
2.5°	111.2	111.2	111.2	110.7	110.2	109.1	108.1	107.1	106.6	106.1	105.6
5°	122.5	123.1	122.5	122.0	120.5	119.0	116.9	115.4	113.2	112.2	111.7
7.5°	139.6	139.6	139.1	136.6	135.0	132.4	129.8	126.7	124.7	123.1	121.0
10°	161.4	160.4	159.3	156.7	153.1	148.9	145.9	142.3	138.6	137.6	135.5
12.5°	187.2	187.2	184.6	181.1	174.3	170.2	165.0	160.9	157.2	155.2	154.2
15°	221.9	220.3	215.7	210.0	201.7	193.4	187.8	184.6	181.1	181.1	177.4
17.5°	257.1	258.6	251.3	242.6	231.2	220.9	214.1	213.6	212.1	211.0	210.5
20°	303.1	301.6	292.8	277.7	261.3	248.8	244.2	244.7	248.8	248.3	246.2
22.5°	352.8	352.8	339.3	319.2	295.8	280.9	276.2	280.9	289.7	289.7	290.7
25°	411.7	409.7	392.6	362.1	334.2	314.5	312.4	319.7	335.2	337.8	336.8
27.5°	477.9	470.7	448.5	410.7	374.0	351.7	348.1	361.6	382.8	390.1	392.6
30°	548.3	548.8	514.6	465.5	415.8	386.4	384.8	406.5	431.9	444.4	447.4
32.5°	629.5	627.0	587.6	526.0	461.9	423.6	422.1	452.0	484.2	500.2	502.3
35°	730.4	718.5	674.5	593.8	509.5	466.1	465.0	497.6	539.5	559.7	564.9
37.5°	823.0	816.7	766.6	664.2	563.9	509.0	506.9	549.3	598.9	622.3	629.5
40°	931.1	923.8	864.9	748.0	628.5	558.6	557.6	605.7	663.1	692.6	698.8
42.5°	1037.1	1032.5	968.8	841.1	696.7	614.5	612.4	668.3	736.0	769.2	776.9
45°	1150.9	1139.0	1077.5	936.2	772.7	679.1	680.2	740.7	824.5	863.3	871.0
47.5°	1248.1	1240.9	1189.2	1039.2	856.6	749.5	751.1	831.8	933.6	978.7	982.2
50°	1354.2	1350.1	1298.8	1148.3	957.5	836.9	839.5	930.6	1053.6	1105.4	1123.5
52.5°	1442.2	1442.7	1403.8	1260.6	1056.7	931.1	938.9	1048.5	1184.0	1253.3	1264.2
55°	1528.0	1525.4	1502.6	1383.6	1174.7	1036.6	1045.4	1178.8	1339.7	1423.5	1438.0
57.5°	1590.1	1596.8	1599.4	1501.6	1289.0	1142.6	1171.6	1314.4	1509.4	1599.4	1612.3
60°	1632.9	1636.1	1672.3	1620.0	1412.6	1267.8	1305.6	1464.9	1668.6	1763.4	1771.6
62.5°	1628.8	1642.2	1712.6	1709.0	1532.6	1386.8	1434.9	1606.1	1807.3	1907.6	1909.2
65°	1573.5	1595.7	1713.6	1765.4	1631.9	1499.5	1561.6	1733.3	1921.1	2000.8	1980.0
67°	1493.3	1510.4	1662.0	1769.0	1685.7	1569.4	1648.0	1812.0	1966.1	2025.5	1975.4
67.5°	1459.8	1490.2	1642.9	1765.4	1691.4	1584.3	1662.0	1832.6	1975.4	2017.9	1964.1
70°	1297.8	1321.6	1492.8	1691.4	1693.5	1629.9	1719.9	1857.5	1940.2	1930.9	1833.6
72.5°	1078.5	1089.3	1277.2	1528.5	1616.0	1611.8	1702.8	1793.3	1792.3	1730.7	1612.8
75°	817.2	846.2	1015.4	1283.3	1454.0	1510.9	1593.7	1623.6	1552.3	1448.8	1306.1
77.5°	576.7	591.8	741.2	1009.1	1229.0	1335.1	1393.5	1379.6	1248.1	1126.1	996.8
80°	373.5	387.9	490.9	723.1	963.6	1077.0	1130.3	1088.8	956.5	813.1	704.5
82.5°	226.1	238.4	310.9	485.2	708.1	834.8	861.7	821.9	674.5	555.6	470.1
85°	132.4	142.3	192.9	312.9	482.6	602.6	612.4	566.9	453.2	371.4	313.4
87.5°	80.7	85.8	122.0	200.2	320.2	406.5	426.8	384.3	305.1	248.3	211.0
90°	52.3	55.9	78.2	131.3	210.0	268.4	280.9	256.6	206.9	169.1	145.4
92.5°	35.7	39.3	54.3	88.0	138.1	177.9	185.7	168.6	139.1	119.0	106.1
95°	27.4	28.9	41.4	62.1	94.1	119.0	126.2	114.9	97.3	87.5	79.7
97.5°	22.2	23.3	33.1	48.1	68.2	85.3	88.5	80.2	71.9	65.7	62.1
100°	19.1	19.6	27.9	39.3	53.3	64.7	66.2	60.0	54.3	51.2	48.1
102.5°	17.1	17.6	24.3	33.7	43.5	51.2	51.2	46.5	41.4	39.3	37.7
105°	15.0	15.5	21.7	28.9	37.2	41.9	41.9	36.7	32.1	30.0	29.5
107.5°	13.4	14.0	18.6	25.4	31.5	35.2	34.7	29.5	24.3	22.2	22.2



REPORT NUMBER: P240480

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	12.4	12.4	16.6	22.2	26.9	30.0	28.4	23.8	18.6	17.1	17.6
112.5°	11.4	11.4	14.5	19.1	23.8	25.9	23.8	19.6	14.5	13.4	14.0
115°	10.8	10.8	12.9	17.1	20.7	21.7	20.2	16.1	11.9	10.8	11.4
117.5°	9.8	9.8	11.9	15.0	17.6	18.6	17.1	12.9	9.8	9.3	9.8
120°	9.3	9.3	10.3	12.9	15.5	16.1	14.5	10.8	8.3	8.3	8.8
122.5°	8.8	8.8	9.8	11.4	13.4	14.0	12.4	8.8	7.3	7.3	7.8
125°	8.8	8.8	8.8	10.3	11.4	11.9	10.3	7.8	6.8	6.8	7.3
127.5°	8.3	8.3	8.3	8.8	9.8	9.8	8.8	6.2	5.7	6.2	6.2
130°	7.8	7.8	7.8	8.3	8.8	8.3	7.3	5.2	5.2	5.7	5.7
132.5°	7.3	7.3	7.3	7.3	7.3	6.8	5.7	4.7	4.7	5.2	5.2
135°	6.8	6.8	6.8	6.2	6.2	5.7	4.7	3.6	4.1	4.7	4.7
137.5°	6.2	6.2	6.2	5.7	5.2	4.1	3.1	3.1	3.6	4.1	4.1
140°	5.7	5.7	5.2	4.7	4.1	3.1	2.0	2.6	3.1	3.1	3.6
142.5°	4.7	4.7	4.7	3.6	2.6	2.0	1.5	1.5	2.6	2.6	2.6
145°	4.1	4.1	3.6	3.1	2.0	1.0	0.5	1.0	1.5	2.0	2.0
147.5°	3.1	3.1	3.1	2.0	1.0	0.5	0.5	0.5	1.0	1.5	1.5
150°	2.6	2.6	2.0	1.5	0.5	0.0	0.0	0.5	1.0	1.0	1.0
152.5°	1.5	1.5	1.5	1.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
155°	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	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: P240480

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9
2.5°	105.0	104.4	103.9	102.9	102.4	101.4	100.4	99.8	99.3	99.3	99.3
5°	110.7	110.2	108.6	106.6	105.0	103.4	102.4	101.4	100.4	100.4	100.4
7.5°	120.0	119.0	115.9	113.8	111.2	109.1	107.6	106.1	105.6	105.6	105.0
10°	133.5	131.9	128.3	124.2	120.5	117.9	115.9	114.3	113.8	113.8	113.8
12.5°	151.1	148.9	143.3	138.1	132.4	128.8	126.2	125.7	126.2	126.2	125.7
15°	176.4	172.3	163.5	155.2	146.4	140.7	139.1	139.1	141.7	142.8	143.3
17.5°	206.9	201.7	189.9	176.4	163.0	155.2	154.2	157.2	163.0	165.5	165.0
20°	244.7	237.4	220.9	200.7	182.1	172.3	171.2	176.9	184.6	189.9	189.3
22.5°	287.0	280.4	255.5	226.1	200.2	188.8	187.2	196.5	208.0	213.6	215.7
25°	334.2	324.8	292.3	252.0	219.3	203.3	202.7	214.1	229.1	239.5	241.0
27.5°	385.3	374.5	331.5	277.7	235.9	215.2	214.6	230.2	250.8	263.8	264.3
30°	441.7	425.1	370.3	299.5	248.3	223.4	224.5	242.6	268.9	284.0	286.5
32.5°	497.6	478.9	405.5	320.7	256.6	227.6	229.1	252.0	280.9	300.0	302.1
35°	556.6	532.8	440.7	334.7	261.3	228.1	229.7	255.5	287.0	307.8	309.9
37.5°	616.0	587.6	470.1	345.0	261.3	225.0	227.1	254.5	286.5	307.8	309.3
40°	686.4	645.0	498.1	349.1	257.1	219.3	221.9	248.8	278.8	298.5	300.0
42.5°	759.3	709.7	524.5	348.1	249.8	212.1	214.6	239.5	265.9	281.9	283.5
45°	847.3	786.8	551.4	345.0	241.0	204.3	205.8	228.1	250.3	261.8	263.8
47.5°	955.3	869.5	578.8	339.3	231.2	197.1	198.1	217.8	233.8	241.0	242.6
50°	1075.4	967.3	608.9	331.5	221.9	190.4	191.9	208.0	219.3	222.4	222.9
52.5°	1217.6	1078.0	636.8	322.2	213.6	185.2	187.2	201.7	209.5	210.0	210.5
55°	1371.3	1199.0	661.5	310.9	205.3	181.6	185.7	199.2	204.3	203.8	204.3
57.5°	1531.6	1315.4	678.6	299.0	198.7	179.5	186.2	199.2	204.3	203.3	204.3
60°	1674.9	1415.3	681.2	283.5	193.4	179.5	189.3	202.7	207.5	207.5	208.5
62.5°	1776.8	1472.6	664.2	267.9	188.8	180.6	193.4	207.5	212.1	212.1	213.1
65°	1818.2	1471.6	627.0	251.3	185.2	182.1	197.6	212.6	216.3	216.3	217.3
67°	1787.1	1423.5	578.8	239.0	183.1	183.6	200.7	215.7	218.8	218.3	218.8
67.5°	1768.0	1406.5	568.5	235.4	182.6	183.6	201.2	216.3	219.3	218.8	218.8
70°	1609.7	1261.1	497.1	219.8	179.0	183.6	203.3	217.3	219.3	218.3	218.3
72.5°	1365.0	1055.2	417.0	204.3	174.8	182.1	202.2	215.7	216.8	215.2	215.2
75°	1085.8	825.5	342.4	190.9	169.1	178.5	198.7	211.0	212.6	211.0	209.5
77.5°	803.8	611.4	276.7	176.4	162.4	172.8	192.4	204.3	205.8	204.3	202.7
80°	560.7	434.4	222.9	161.9	153.6	164.5	183.6	194.0	196.0	195.0	192.4
82.5°	375.0	298.5	178.5	145.9	142.3	153.6	171.8	181.1	182.6	181.6	178.5
85°	256.0	208.0	147.4	128.8	129.8	140.7	156.2	163.5	165.0	163.5	160.4
87.5°	172.3	148.9	120.5	112.2	115.4	125.7	138.1	141.7	144.8	142.3	140.1
90°	124.7	112.2	97.3	95.6	100.9	109.7	117.9	118.5	122.5	121.5	117.4
92.5°	93.6	88.0	80.7	80.7	86.3	93.6	98.8	97.8	100.4	100.4	97.3
95°	74.0	70.9	67.2	68.8	74.0	79.2	80.7	78.7	81.2	81.7	80.7
97.5°	59.5	58.4	57.4	58.4	63.1	67.2	66.7	63.1	65.2	66.2	65.2
100°	48.1	47.6	48.1	50.1	53.8	56.4	54.8	51.2	52.8	52.8	52.8
102.5°	38.8	38.8	40.3	42.5	45.0	47.1	45.0	41.9	42.5	41.9	41.9
105°	30.5	31.0	33.1	35.7	37.7	38.8	36.7	33.7	33.1	31.5	32.1
107.5°	23.8	24.9	26.9	29.5	31.5	32.1	30.5	27.4	25.4	24.3	24.3



REPORT NUMBER: P240480

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.6	19.6	22.2	24.3	25.9	26.4	24.9	21.7	19.1	18.6	18.6
112.5°	15.0	16.1	18.1	20.2	21.7	21.7	20.2	17.6	14.5	14.0	14.0
115°	12.4	12.9	15.0	16.6	18.1	18.1	16.6	14.0	11.4	10.8	11.4
117.5°	10.3	10.8	12.4	14.0	15.0	15.0	13.4	10.8	8.8	8.8	8.8
120°	9.3	9.8	10.8	11.9	12.4	12.4	11.4	8.8	7.3	7.3	7.3
122.5°	8.3	8.3	9.3	9.8	10.8	10.3	9.3	7.3	5.7	6.2	6.2
125°	7.3	7.8	7.8	8.8	8.8	8.8	7.3	5.7	5.2	5.2	5.2
127.5°	6.8	6.8	7.3	7.3	7.8	7.3	5.7	4.1	4.1	4.7	4.7
130°	6.2	6.2	6.2	6.2	6.2	5.7	4.7	3.6	3.6	4.1	4.1
132.5°	5.2	5.7	5.7	5.2	5.2	4.7	3.6	2.6	3.1	3.1	3.1
135°	4.7	5.2	4.7	4.7	4.1	3.6	2.6	2.0	2.6	2.6	2.6
137.5°	4.1	4.1	4.1	3.6	3.1	2.6	2.0	1.5	2.0	2.0	2.0
140°	3.6	3.6	3.6	3.1	2.6	2.0	1.0	1.0	1.5	1.5	1.5
142.5°	2.6	3.1	2.6	2.0	1.5	1.0	0.5	0.5	1.0	1.5	1.0
145°	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0	0.5	0.5	0.5
147.5°	1.5	1.5	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.5
150°	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.5	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)