

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: P266331

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-A-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)  
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-SL3-A-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3084.8 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G2

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

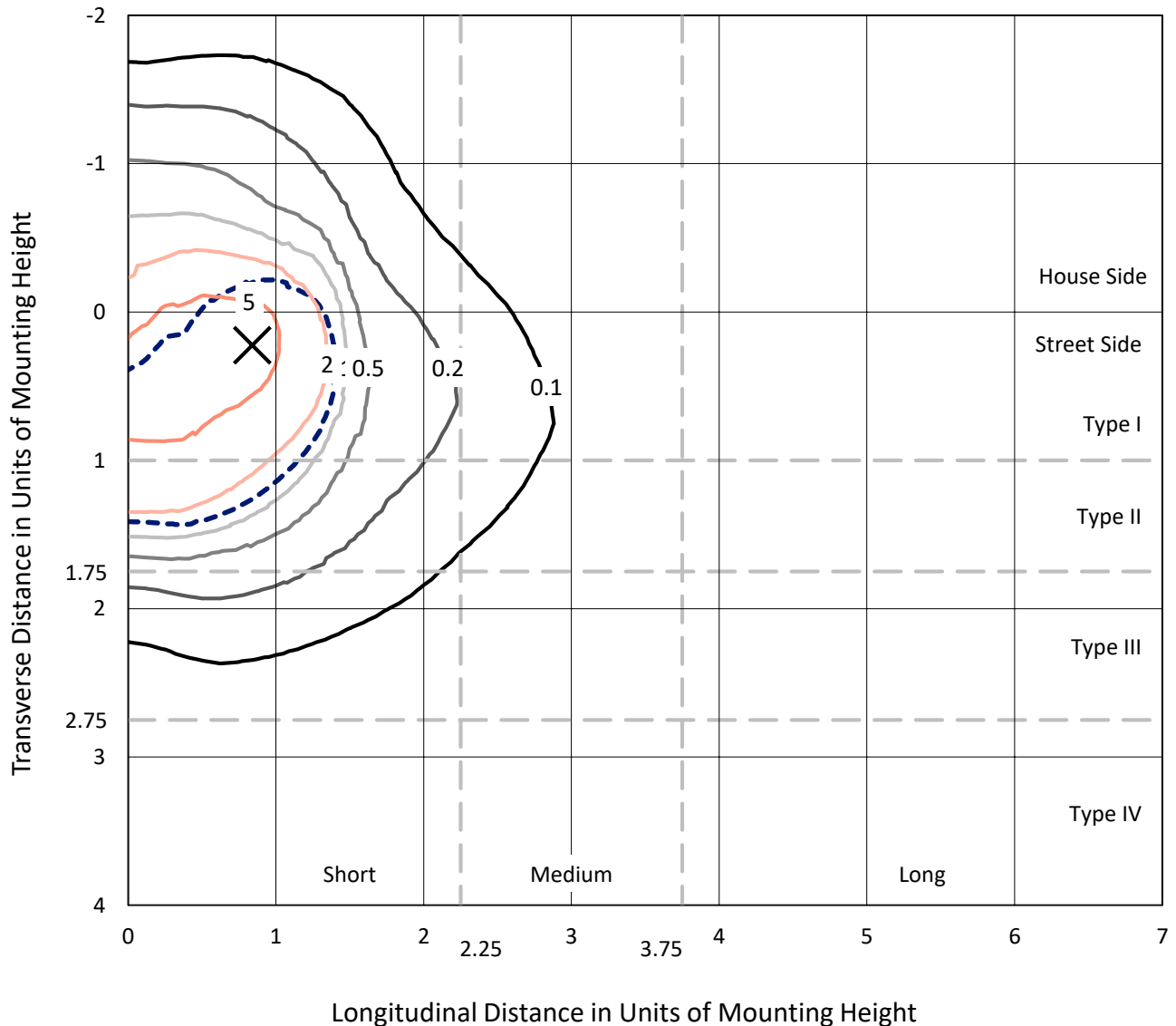


REPORT NUMBER: P266331

CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-A-7027

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

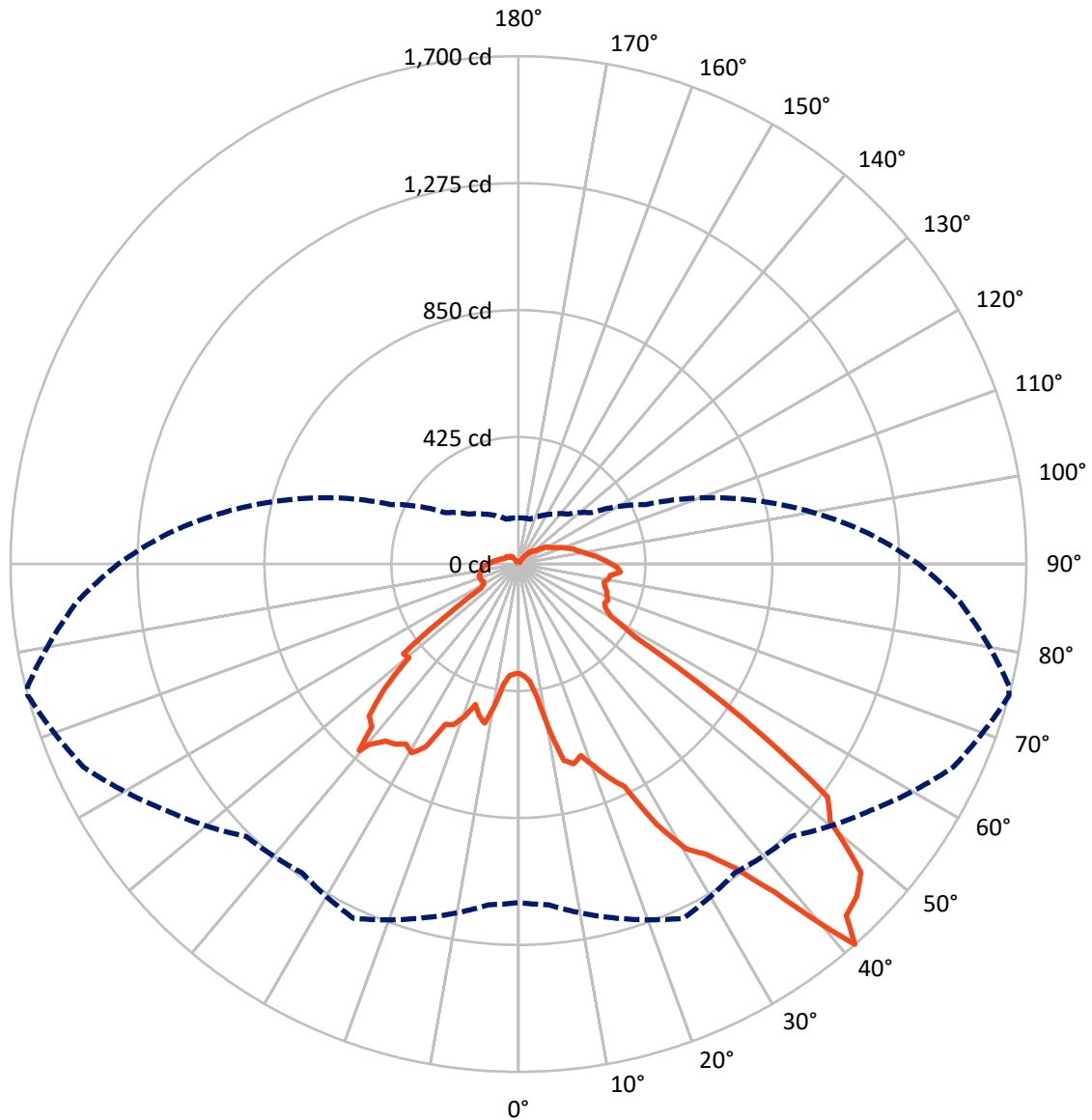


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266331

CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-A-7027

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 41-Deg Vertical

REPORT NUMBER: P266331

CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-A-7027

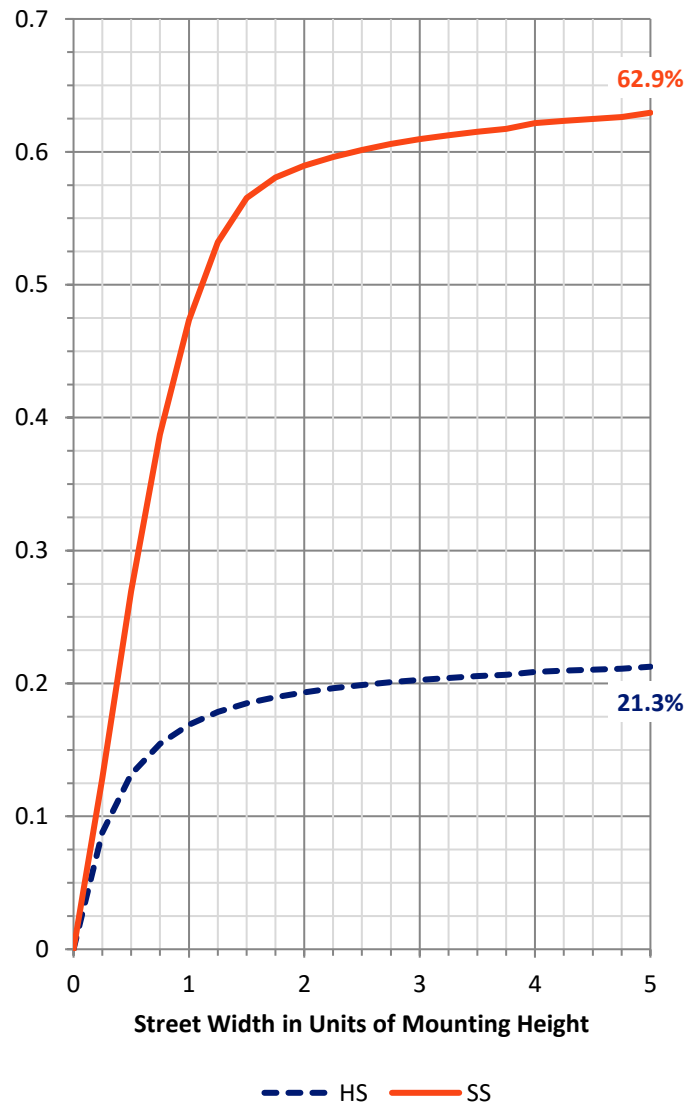
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	680.5	86.8	767.2
	% Fixture	22.1	2.8	24.9
<b>Street Side</b>	Lumens	2001.3	316.3	2317.5
	% Fixture	64.9	10.3	75.1
<b>Total</b>	Lumens	2681.8	403.0	3084.8
	% Fixture	86.9	13.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	1.2
10°-20°	152.7	4.9
20°-30°	313.6	10.2
30°-40°	510.6	16.6
40°-50°	663.2	21.5
50°-60°	470.2	15.2
60°-70°	191.1	6.2
70°-80°	172.9	5.6
80°-90°	168.9	5.5
90°-100°	144.9	4.7
100°-110°	104.9	3.4
110°-120°	71.6	2.3
120°-130°	46.5	1.5
130°-140°	27.7	0.9
140°-150°	7.0	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2681.8	86.9
0°-180°	3084.8	100.0



REPORT NUMBER: P266331

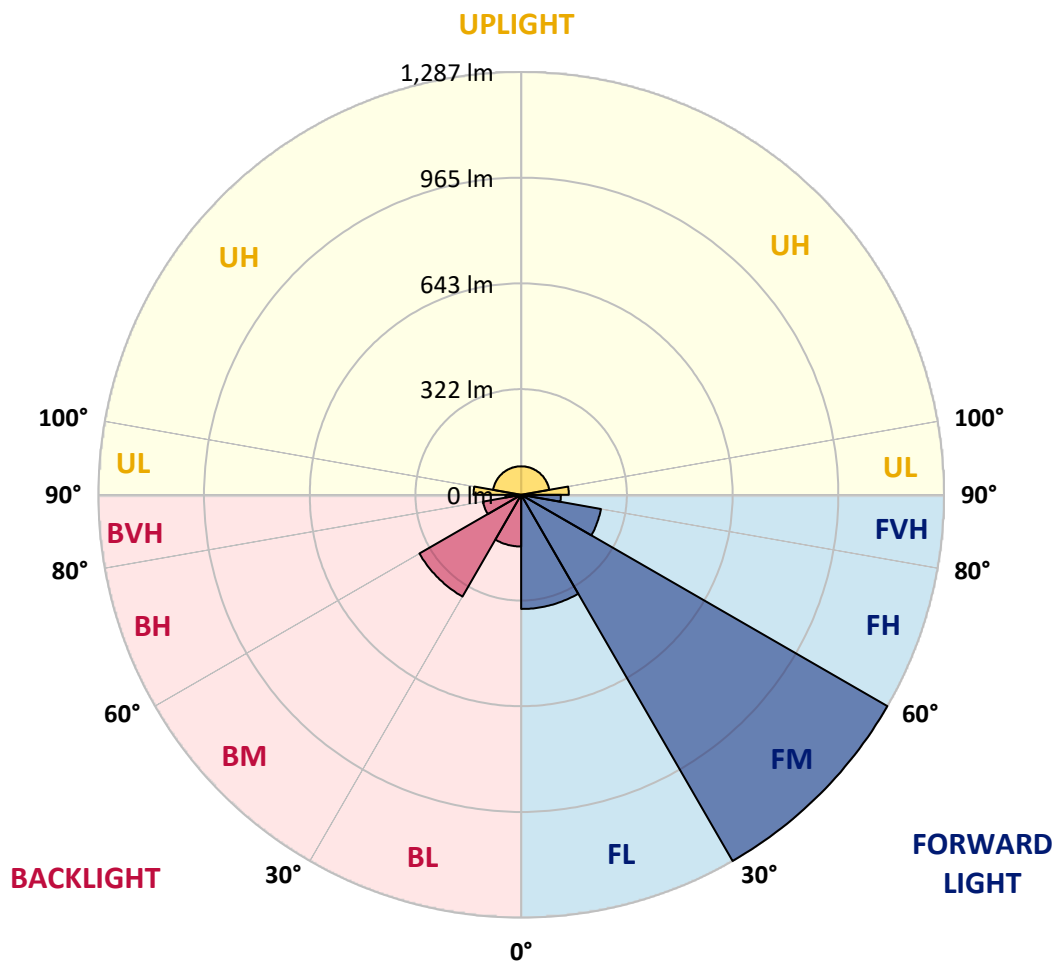
CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-A-7027

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.4	11.3			
FM	(30°-60°)	1286.6	41.7			
FH	(60°-80°)	246.3	8.0			G0/660
FVH	(80°-90°)	121.0	3.9			G2/225
BL	(0°-30°)	157.4	5.1	B1/500		
BM	(30°-60°)	357.4	11.6	B1/1000		
BH	(60°-80°)	117.7	3.8	B1/500		G1/500
BVH	(80°-90°)	47.9	1.6			G1/100
UL	(90°-100°)	144.9	4.7		U3/500	
UH	(100°-180°)	86.8	2.8		U3/500	

**BUG Rating: B1-U3-G2**

Type II Short





REPORT NUMBER: P266331

CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-A-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9
2.5°	391.4	392.3	390.6	389.2	388.3	385.7	383.4	380.4	376.0	375.6	373.9
5°	427.1	427.1	427.1	423.9	420.3	414.7	409.8	402.8	394.4	394.0	387.4
7.5°	484.5	484.5	481.9	477.4	469.6	460.8	459.9	459.0	447.6	446.3	434.5
10°	546.4	544.7	546.0	549.6	553.5	565.4	572.8	573.7	561.4	558.3	541.1
12.5°	570.7	572.4	587.9	615.9	663.3	710.7	735.4	715.2	674.3	669.1	628.6
15°	607.6	609.7	635.2	682.3	761.4	829.9	808.7	758.2	693.6	688.8	626.5
17.5°	706.3	716.5	741.1	815.8	896.1	868.5	797.3	732.3	673.9	668.2	615.9
20°	775.7	781.4	829.0	900.6	957.2	915.1	866.2	800.7	722.1	722.1	681.4
22.5°	833.4	831.7	870.3	978.3	1011.2	984.1	927.3	860.5	777.2	773.1	720.0
25°	923.8	929.6	996.3	1115.9	1085.5	1016.2	941.5	880.3	825.5	820.6	767.4
27.5°	976.5	991.5	1068.4	1172.1	1152.7	1059.1	993.6	984.5	988.5	984.5	926.5
30°	989.8	996.3	1091.3	1193.9	1180.8	1111.5	1111.5	1126.7	1106.6	1100.9	1023.1
32.5°	1022.7	1038.5	1129.3	1209.4	1177.3	1164.2	1171.2	1168.1	1159.4	1151.4	1060.9
35°	1076.3	1090.0	1175.2	1235.3	1176.9	1181.7	1245.0	1281.4	1249.8	1242.7	1107.9
37.5°	1217.4	1230.5	1307.4	1303.8	1208.1	1217.4	1331.9	1398.8	1393.0	1392.2	1258.5
40°	1189.1	1232.7	1325.8	1340.4	1254.7	1264.8	1401.7	1546.7	1613.5	1611.7	1446.1
41°	1132.9	1144.8	1226.0	1308.2	1262.1	1288.9	1438.2	1606.4	1699.7	1693.0	1485.6
42.5°	1153.2	1174.3	1222.6	1249.8	1253.3	1306.9	1466.8	1614.0	1609.1	1606.1	1436.5
45°	1325.4	1334.2	1354.4	1302.1	1213.8	1280.5	1451.0	1587.7	1587.1	1573.1	1496.7
47.5°	1242.4	1267.4	1353.4	1306.9	1209.7	1208.8	1321.0	1505.9	1542.7	1522.5	1332.4
50°	1175.2	1193.0	1243.3	1193.6	1151.0	1150.1	1255.6	1394.8	1352.6	1346.9	1085.5
52.5°	1042.5	1060.0	1095.7	1083.3	1059.1	1056.4	1136.8	1282.7	1296.0	1291.6	1095.7
55°	792.5	804.8	938.8	942.3	924.3	933.1	998.0	1057.3	909.8	886.1	615.9
57.5°	465.6	497.3	627.2	708.7	746.0	753.0	730.5	625.6	461.6	445.0	284.3
60°	229.7	246.0	336.4	422.7	519.2	522.8	451.6	399.7	354.6	344.4	248.7
62.5°	163.9	173.6	232.8	278.6	332.6	341.4	316.4	337.9	328.2	322.0	242.1
65°	148.5	156.8	206.5	230.7	253.1	266.6	272.7	308.8	316.4	312.3	240.2
67.5°	135.7	144.1	188.5	206.9	223.6	245.5	258.7	294.4	322.9	320.2	254.8
70°	120.0	129.5	170.0	192.3	213.1	238.1	256.0	293.4	314.0	310.5	246.9
72.5°	105.0	113.7	146.8	173.1	203.3	231.9	258.7	286.0	308.8	305.8	250.0
75°	91.4	100.2	128.6	155.9	190.7	233.6	260.5	283.8	298.2	293.8	245.5
77.5°	82.1	90.9	115.5	142.3	181.0	236.3	284.7	293.4	292.9	288.6	240.2
80°	74.6	83.5	106.8	132.7	172.2	242.1	304.4	313.1	305.3	299.7	241.6
82.5°	72.6	80.8	102.3	131.0	173.9	245.5	310.2	332.2	309.6	302.6	240.2
85°	80.4	85.7	108.1	140.1	185.4	251.7	307.9	342.7	342.3	334.8	262.2
87.5°	95.8	100.2	122.1	154.6	197.6	255.2	335.2	349.3	330.8	327.3	264.9
90°	118.5	121.7	144.5	174.5	210.5	253.5	276.3	294.4	306.6	303.9	251.3
92.5°	141.0	144.9	165.6	187.6	203.8	217.8	240.2	282.0	283.8	281.6	241.6
95°	167.4	170.0	181.8	192.9	196.4	201.2	223.6	242.1	262.2	259.6	232.8
97.5°	181.8	183.2	188.5	187.1	178.9	179.8	204.8	224.4	236.8	233.6	203.8
100°	178.4	179.8	180.6	172.7	161.2	164.7	185.4	209.0	218.7	217.5	189.0
102.5°	166.9	169.2	169.6	161.7	151.2	152.1	172.2	190.3	200.3	198.5	176.2
105°	163.9	164.7	160.7	150.2	137.9	139.6	159.0	178.4	190.3	189.4	166.5
107.5°	147.6	148.5	142.8	132.7	128.3	133.0	150.6	163.0	170.9	170.9	148.5



REPORT NUMBER: P266331

CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-A-7027

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	123.8	123.8	122.6	120.4	121.2	128.3	142.8	150.6	157.3	156.8	135.7
112.5°	120.0	119.0	117.8	116.1	113.4	119.0	128.6	138.3	139.6	139.2	121.2
115°	118.1	116.9	112.5	107.6	104.6	109.0	116.4	125.3	128.6	128.3	115.5
117.5°	104.6	104.6	101.0	97.6	96.2	101.9	111.1	116.9	117.3	118.1	105.9
120°	93.6	93.6	91.4	89.7	90.5	93.2	103.2	108.1	112.5	112.0	101.5
122.5°	85.2	85.7	83.9	80.4	83.5	86.1	91.7	96.7	101.5	101.0	93.6
125°	76.8	76.4	74.6	70.7	77.8	81.2	81.7	81.2	86.1	86.1	79.5
127.5°	68.1	67.6	65.8	63.7	72.9	77.8	76.8	69.9	72.9	72.6	69.3
130°	67.3	66.7	63.7	61.1	65.4	73.8	69.9	64.9	67.6	68.1	64.9
132.5°	66.7	66.4	63.3	58.8	57.5	66.4	59.3	60.1	63.3	63.3	60.6
135°	62.4	62.0	59.3	53.2	47.0	54.8	47.0	51.8	55.8	55.8	53.5
137.5°	54.8	54.4	51.8	46.5	37.8	39.0	35.7	43.5	47.9	48.2	46.5
140°	43.5	43.9	41.3	36.0	27.3	20.7	23.3	33.9	38.2	38.2	37.8
142.5°	32.5	32.5	29.9	24.7	15.8	7.5	13.1	20.7	26.0	26.4	27.3
145°	22.8	22.8	20.2	15.8	7.9	1.3	6.2	12.2	16.3	16.3	17.5
147.5°	14.9	14.9	12.8	8.9	2.2	0.4	1.7	6.2	9.6	9.6	10.5
150°	9.3	9.3	7.0	2.6	0.4	0.0	0.4	1.3	4.4	4.4	5.7
152.5°	3.1	2.6	1.3	0.9	0.4	0.0	0.0	0.4	0.4	0.4	1.3
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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: P266331

CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-A-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9
2.5°	371.7	370.8	367.6	363.8	359.0	352.8	348.8	347.0	344.9	343.2	344.1
5°	383.9	380.9	373.9	361.1	349.3	340.5	333.5	327.3	324.2	321.6	321.6
7.5°	428.8	423.6	403.7	382.1	355.4	331.3	314.0	305.3	295.3	292.6	292.0
10°	526.2	519.7	478.0	426.2	375.6	328.2	285.1	261.9	250.8	245.1	246.4
12.5°	607.2	592.2	544.7	485.9	416.1	339.6	279.8	238.1	219.6	212.5	209.9
15°	600.4	575.5	524.2	468.2	413.8	358.1	298.2	251.3	213.1	200.3	197.6
17.5°	586.1	559.6	491.6	420.0	356.3	322.0	288.6	254.4	225.4	206.0	202.5
20°	659.9	629.9	541.1	470.1	380.4	293.8	255.7	236.3	217.8	208.2	206.0
22.5°	691.4	661.2	579.4	489.3	400.6	325.9	263.6	228.0	213.4	211.7	209.0
25°	738.9	700.7	589.6	476.2	390.6	329.5	264.0	228.9	207.4	207.4	206.0
27.5°	892.1	836.4	688.5	528.9	405.5	316.7	257.5	218.7	192.9	182.7	180.6
30°	960.7	907.6	726.2	542.5	412.1	319.7	245.1	200.7	183.7	176.2	175.3
32.5°	1010.4	941.0	710.3	509.6	378.6	298.7	234.5	194.2	177.1	170.5	168.7
35°	1034.9	943.6	731.4	497.8	358.5	274.2	222.3	186.7	176.2	170.9	170.9
37.5°	1155.0	1041.6	742.0	494.6	343.2	250.4	211.3	187.1	164.7	157.3	157.7
40°	1320.5	1159.4	781.4	471.8	313.1	242.1	204.3	178.9	158.1	153.3	151.5
41°	1339.0	1176.4	821.1	471.4	299.1	236.0	203.8	178.0	155.4	154.6	154.1
42.5°	1289.7	1121.5	732.3	428.3	280.7	225.8	202.9	177.1	152.9	155.0	154.6
45°	1346.0	1179.0	712.5	392.3	248.7	209.0	192.3	172.2	151.2	147.1	147.6
47.5°	1169.5	999.5	613.3	341.4	220.1	191.1	178.0	161.2	146.8	144.5	144.5
50°	931.4	783.7	482.3	300.0	193.8	176.2	163.9	152.9	137.9	132.2	133.9
52.5°	948.9	793.8	488.9	279.5	176.2	160.7	152.9	139.2	121.7	111.1	112.8
55°	521.8	452.4	286.0	214.3	163.4	149.4	140.1	126.1	106.8	95.0	96.2
57.5°	236.8	196.8	152.1	147.6	141.5	137.5	127.4	114.7	96.2	83.1	83.1
60°	211.7	173.6	135.7	123.4	126.5	127.0	116.4	104.2	86.1	70.7	71.1
62.5°	206.9	169.2	131.8	117.8	120.4	120.4	110.2	97.9	81.7	65.8	65.8
65°	206.0	167.4	132.2	116.1	117.8	118.1	108.1	97.9	87.0	75.5	76.4
67.5°	218.3	177.1	136.6	114.7	116.4	116.4	108.1	100.6	94.1	87.0	87.9
70°	211.7	173.9	135.7	114.7	113.7	113.7	107.6	101.0	97.6	91.4	91.7
72.5°	214.3	179.2	138.3	113.7	110.2	109.4	105.5	101.5	98.5	95.3	95.8
75°	210.5	177.4	133.9	109.4	105.0	103.2	100.6	99.7	100.2	98.9	97.9
77.5°	204.3	174.5	131.0	105.0	100.2	96.2	94.4	95.0	96.7	95.3	94.1
80°	203.3	174.8	129.5	102.3	94.1	87.5	85.2	86.1	86.5	83.9	81.2
82.5°	200.7	171.3	123.4	95.3	84.8	76.4	74.6	75.9	76.4	73.8	71.1
85°	216.1	180.6	121.7	88.8	76.8	68.1	64.9	65.4	62.4	58.4	55.8
87.5°	222.3	182.3	114.7	78.6	69.0	61.5	57.5	54.8	50.0	43.5	41.7
90°	211.3	173.1	103.2	67.6	60.6	54.8	50.0	46.5	40.5	33.9	31.6
92.5°	204.8	166.0	95.0	60.6	53.2	48.2	43.9	38.6	32.5	25.1	23.7
95°	200.7	163.4	89.7	54.1	47.4	42.6	38.2	33.3	27.3	21.5	20.7
97.5°	174.8	141.5	79.1	48.2	41.7	37.3	33.3	28.6	22.8	18.4	17.5
100°	162.6	131.8	73.3	43.5	36.9	33.0	29.5	25.5	20.7	17.5	17.2
102.5°	152.1	122.6	66.7	39.0	33.0	28.9	26.0	22.4	18.9	16.3	16.7
105°	144.1	116.9	64.0	36.0	29.5	26.4	22.8	20.2	16.7	14.9	14.9
107.5°	127.7	103.7	56.7	32.5	26.8	23.7	21.1	18.4	15.8	14.6	14.9



REPORT NUMBER: P266331

CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-A-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	118.1	96.2	54.1	31.3	25.5	22.0	19.4	16.7	14.1	14.1	14.1
112.5°	105.0	86.5	50.0	29.5	23.7	20.7	18.1	14.9	12.2	12.8	13.1
115°	100.6	83.5	48.2	28.0	22.8	19.8	16.7	14.1	11.0	11.9	12.2
117.5°	92.6	77.3	47.0	28.0	22.0	18.4	15.8	13.1	10.5	11.4	11.4
120°	90.1	75.9	47.0	27.7	21.1	17.5	14.9	11.4	9.6	10.5	10.5
122.5°	83.9	71.1	44.8	27.3	20.2	16.7	14.6	9.6	8.4	9.3	9.3
125°	72.0	62.0	40.5	25.5	19.4	16.7	14.1	7.9	7.9	8.9	8.9
127.5°	62.8	54.4	36.9	25.1	19.8	17.5	13.1	6.6	7.0	7.9	7.9
130°	59.7	53.2	38.2	27.3	21.5	18.4	9.6	6.2	6.6	7.5	7.9
132.5°	56.7	51.5	39.0	29.5	22.8	18.1	7.9	5.7	6.2	7.0	7.0
135°	50.6	46.5	36.4	28.0	21.5	14.6	5.7	4.9	5.7	6.6	6.6
137.5°	44.3	41.3	33.3	26.0	19.8	11.4	4.0	4.4	4.9	5.3	5.3
140°	36.4	33.9	27.7	21.1	14.6	6.2	2.6	3.6	4.0	4.4	4.4
142.5°	26.4	24.7	19.8	14.1	8.4	2.2	1.7	2.6	3.1	3.6	3.6
145°	17.5	16.3	12.8	8.9	3.1	1.3	0.9	1.7	2.6	2.6	3.1
147.5°	10.5	10.2	7.5	4.0	1.3	0.9	0.9	1.3	1.7	2.2	2.2
150°	5.3	5.3	3.6	1.3	0.9	0.4	0.4	0.4	0.9	1.3	1.3
152.5°	1.3	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.4	0.4	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)