

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: P241026

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T4W-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8315.6 lumens
Efficiency: N/A
Efficacy: 86.6 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: B2 - U3 - G2

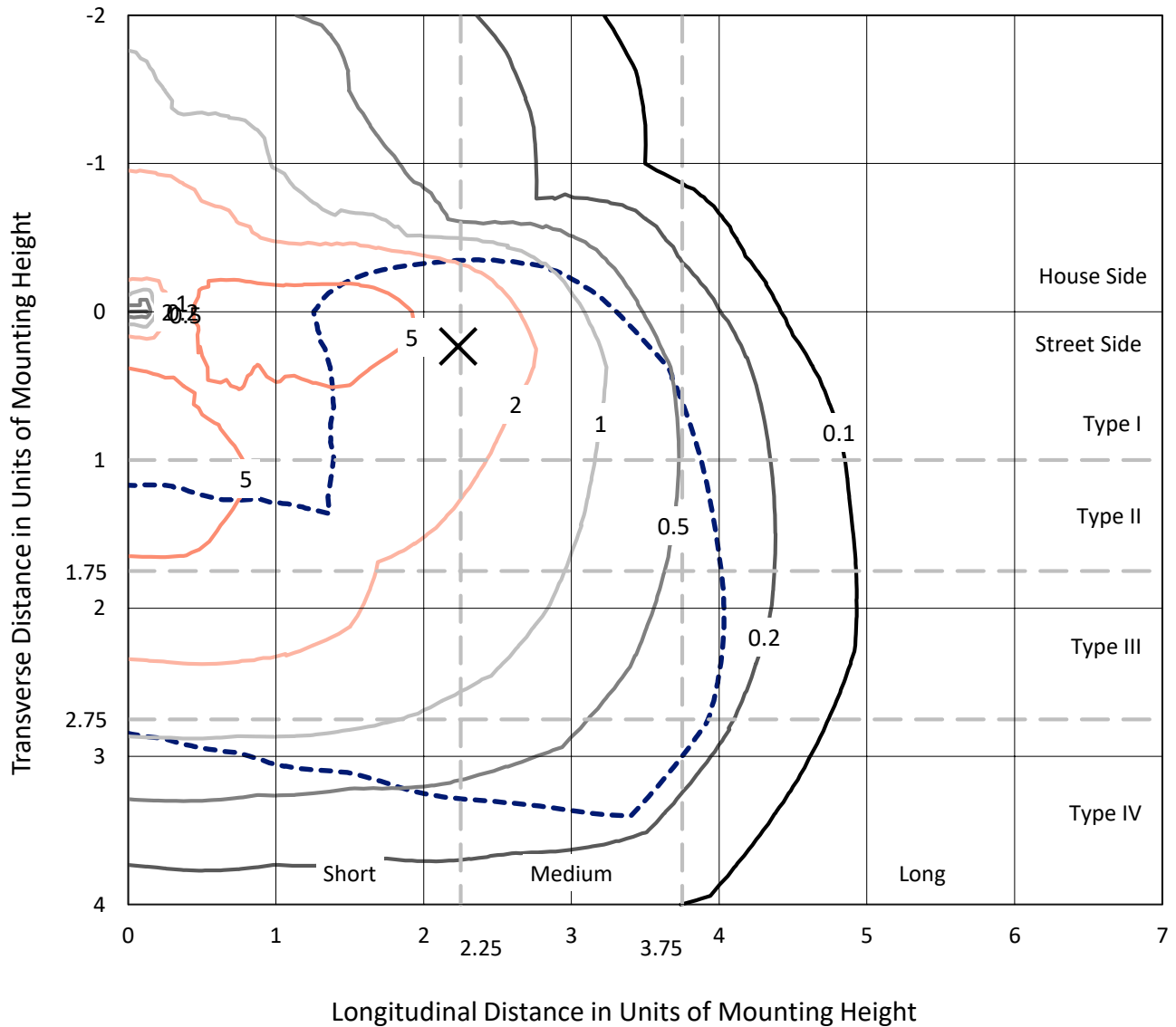
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P241026
 CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL

Iso-Footcandle Lines of Horizontal Illumination

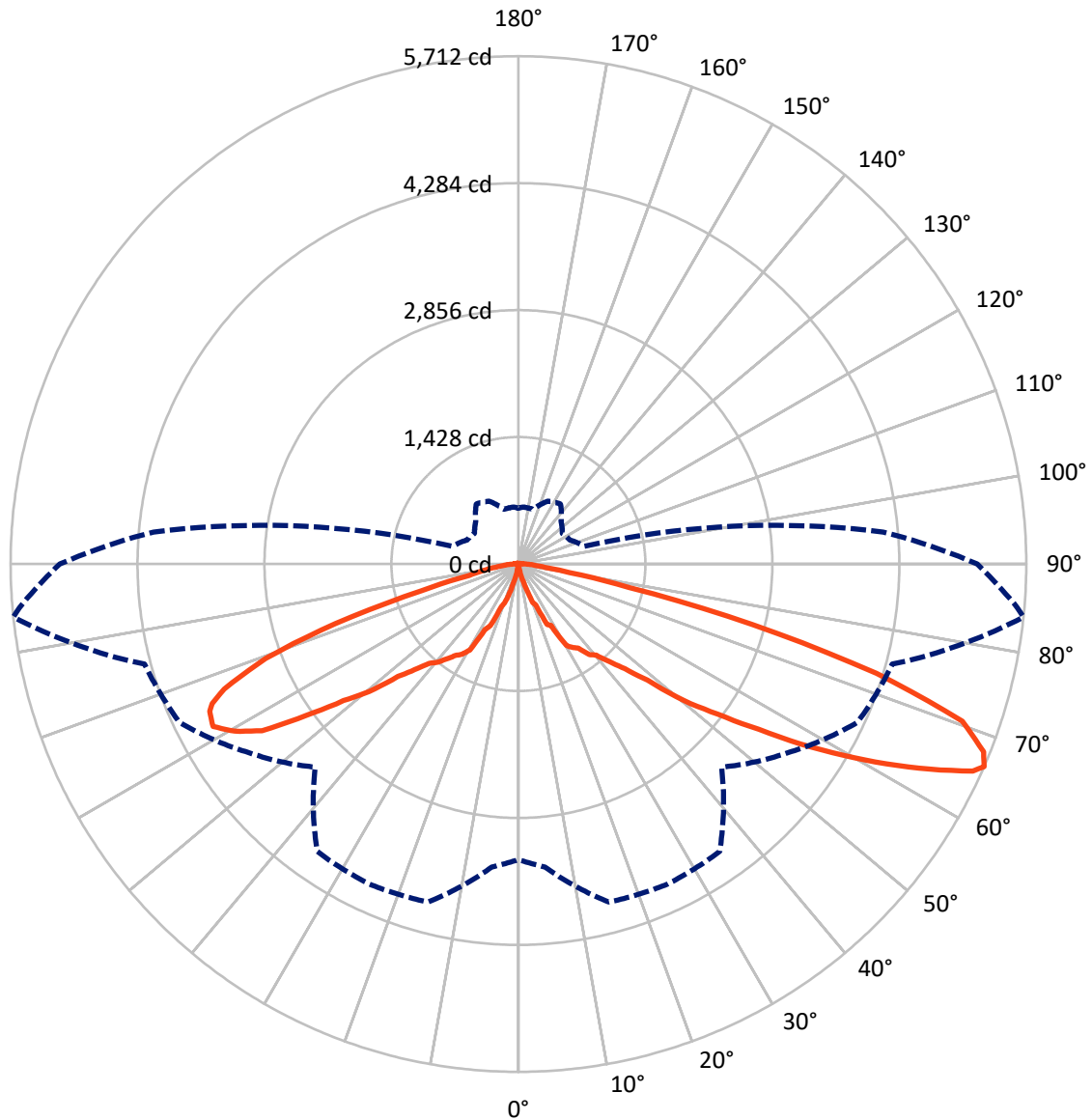
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P241026
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P241026

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL

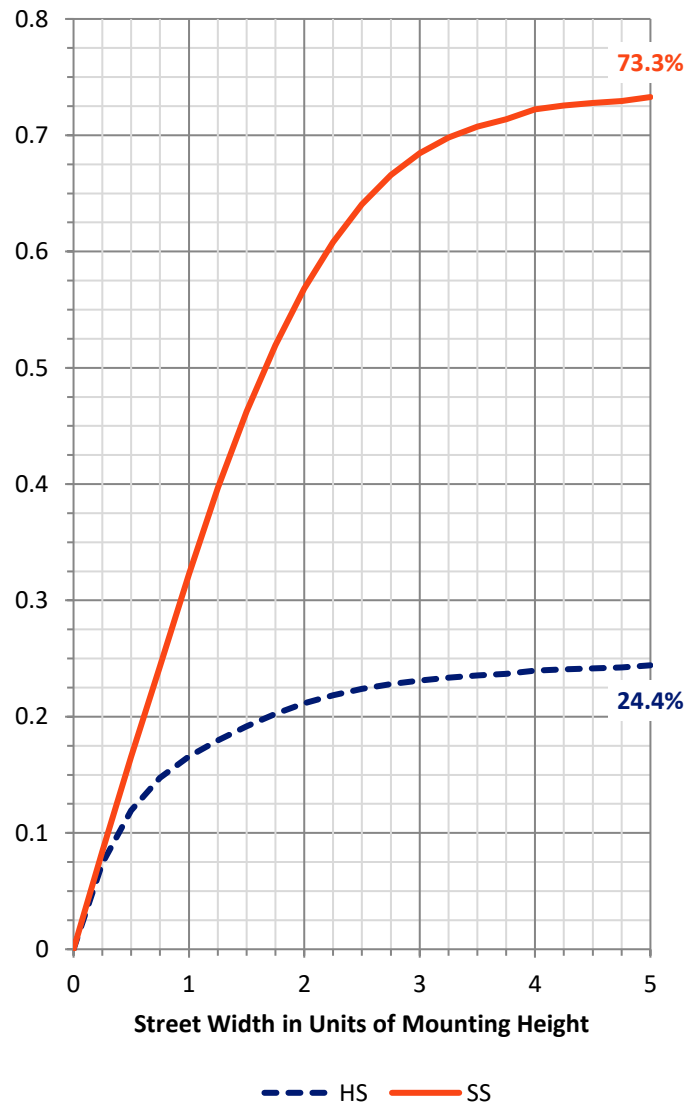
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2080.9	50.6	2131.5
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	6136.5	47.6	6184.1
	% Fixture	73.8	0.6	74.4
Total	Lumens	8217.4	98.2	8315.6
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	77.2	0.9
20°-30°	285.2	3.4
30°-40°	586.5	7.1
40°-50°	973.1	11.7
50°-60°	1696.7	20.4
60°-70°	2499.4	30.1
70°-80°	1824.1	21.9
80°-90°	269.1	3.2
90°-100°	50.1	0.6
100°-110°	22.9	0.3
110°-120°	10.8	0.1
120°-130°	7.5	0.1
130°-140°	4.5	0.1
140°-150°	2.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8217.4	98.8
0°-180°	8315.6	100.0



REPORT NUMBER: P241026

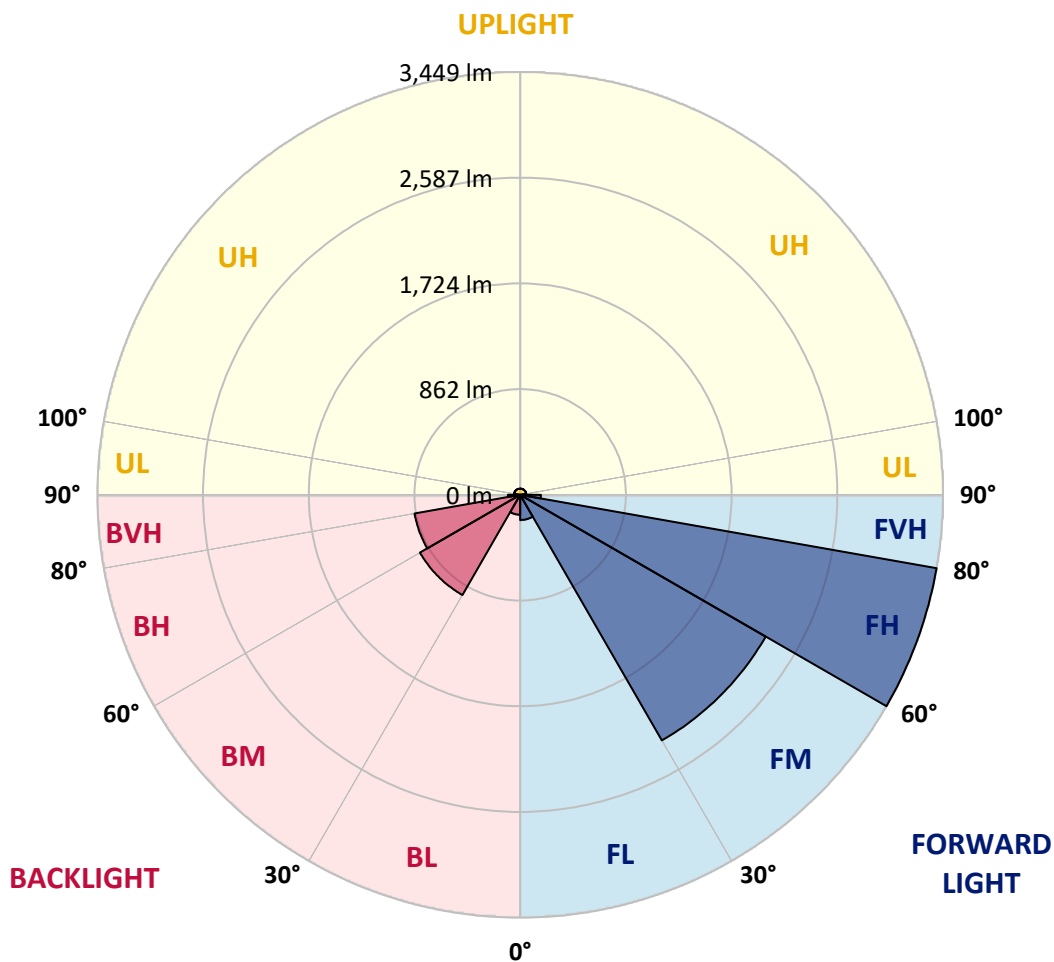
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.8	2.5			
FM	(30°-60°)	2312.7	27.8			
FH	(60°-80°)	3448.8	41.5			G2/5000
FVH	(80°-90°)	169.2	2.0			G2/225
BL	(0°-30°)	162.8	2.0	B1/500		
BM	(30°-60°)	943.5	11.3	B1/1000		
BH	(60°-80°)	874.7	10.5	B2/1000		G2/1000
BVH	(80°-90°)	99.9	1.2			G1/100
UL	(90°-100°)	50.1	0.6		U3/500	
UH	(100°-180°)	50.6	0.6		U3/500	

BUG Rating: B2-U3-G2

Type IV Short





REPORT NUMBER: P241026

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	49.1	44.0	44.0	41.9	37.8	33.8	26.6	22.5	19.4	19.4	18.4
5°	94.1	99.2	114.6	105.4	87.0	113.5	51.1	33.8	21.5	18.4	18.4
7.5°	149.4	157.5	120.7	107.4	107.4	114.6	93.1	56.3	28.6	21.5	20.5
10°	313.0	295.6	205.6	208.7	177.0	123.8	84.9	74.7	44.0	34.8	31.7
12.5°	303.8	299.7	305.9	267.0	269.0	195.4	108.4	173.9	157.5	150.4	165.7
15°	391.8	387.7	311.0	317.1	287.4	298.7	251.6	250.6	242.4	203.6	195.4
17.5°	544.2	540.1	608.7	405.1	288.5	373.4	324.3	279.3	289.5	305.9	318.1
20°	543.2	537.0	565.7	485.9	492.0	385.7	345.8	508.4	464.4	466.5	439.9
22.5°	802.0	765.2	672.1	507.4	554.4	451.1	512.5	502.3	468.5	496.1	487.9
25°	778.5	792.8	761.1	750.8	564.7	646.5	563.6	580.0	716.1	752.9	753.9
27.5°	903.3	875.6	851.1	771.3	759.0	629.1	580.0	772.3	749.8	783.6	782.6
30°	1077.2	1068.0	1061.8	857.2	821.4	693.6	781.5	788.7	910.4	1063.9	1095.6
32.5°	1244.9	1200.9	1101.7	992.3	824.5	819.4	776.4	980.0	1044.4	1117.1	1128.3
35°	1510.9	1509.9	1342.1	1060.8	922.7	870.5	1005.6	1055.7	1054.7	1164.1	1230.6
37.5°	1738.0	1749.2	1573.3	1280.7	954.4	879.7	1049.5	1138.5	1142.6	1291.0	1265.4
40°	2083.8	2054.1	1896.6	1529.3	1090.5	938.0	1150.8	1164.1	1248.0	1347.2	1384.1
42.5°	2329.3	2318.0	2266.9	1819.8	1248.0	1045.5	1270.5	1213.2	1321.7	1501.7	1540.6
45°	2482.7	2427.5	2477.6	2032.6	1500.7	1275.6	1297.1	1373.8	1489.4	1679.7	1789.1
47.5°	2637.2	2679.1	2561.5	2193.2	1727.8	1382.0	1427.0	1669.5	1781.0	1951.8	2021.4
50°	2905.2	2860.2	2819.3	2434.6	2077.6	1551.8	1785.0	1752.3	2065.3	2414.2	2426.4
52.5°	3068.9	3068.9	3002.4	2645.4	2319.0	1802.4	1904.7	2021.4	2487.8	2803.9	2918.5
55°	3301.1	3349.1	3336.9	2893.9	2603.4	2143.1	2217.8	2463.3	2874.5	3280.6	3563.9
57.5°	3465.8	3532.1	3676.4	3159.9	2879.6	2282.2	2675.0	2948.1	3394.2	3888.1	4230.8
60°	3710.1	3711.2	3859.5	3395.2	3228.4	2547.1	2852.0	3398.2	3679.5	4472.2	4653.3
62.5°	3734.7	3776.6	4087.6	3761.3	3576.1	2823.3	3431.0	3630.4	4000.7	5059.4	5218.0
65°	3438.1	3550.6	4071.2	3933.1	3894.3	3078.1	3600.7	4089.7	4261.5	5615.9	5570.9
66°	3324.6	3419.7	3936.2	3971.0	3946.4	3230.5	3699.9	4209.3	4352.6	5712.1	5633.3
67.5°	3284.7	3354.3	3774.6	4011.9	4123.4	3506.6	3942.4	4267.6	4519.3	5642.5	5610.8
70°	3007.5	3094.4	3489.2	4282.0	4500.9	4012.9	4254.4	4408.8	4636.9	5297.8	5160.7
72.5°	2293.5	2382.5	2674.0	3533.2	4532.6	4761.7	4738.2	4586.8	4254.4	4209.3	3989.4
75°	1137.5	1232.7	1438.3	2059.2	3527.0	4677.9	4710.6	4135.7	3438.1	2714.9	2546.1
77.5°	588.2	662.9	555.5	788.7	1813.7	3318.5	3333.8	2727.2	1992.7	1268.5	1184.6
80°	401.0	417.4	378.5	388.7	746.8	1696.1	1581.5	1451.6	802.0	582.1	607.6
82.5°	294.6	272.1	260.9	283.4	403.0	529.9	568.8	628.1	428.6	295.6	312.0
85°	139.1	153.4	150.4	172.9	245.5	181.1	278.2	377.5	285.4	190.3	187.2
87.5°	87.0	85.9	92.1	106.4	148.3	119.7	152.4	187.2	171.9	118.7	116.6
90°	57.3	51.1	48.1	57.3	82.9	59.3	81.8	106.4	97.2	64.4	60.4
92.5°	38.9	38.9	41.9	48.1	71.6	63.4	58.3	60.4	60.4	50.1	48.1
95°	28.6	30.7	34.8	35.8	43.0	36.8	47.1	52.2	53.2	40.9	39.9
97.5°	24.6	26.6	28.6	29.7	35.8	29.7	38.9	46.0	45.0	32.7	33.8
100°	22.5	24.6	24.6	25.6	28.6	22.5	31.7	43.0	40.9	28.6	27.6
102.5°	21.5	21.5	20.5	20.5	22.5	17.4	26.6	37.8	30.7	23.5	21.5
105°	20.5	20.5	17.4	16.4	17.4	14.3	21.5	28.6	21.5	19.4	19.4
107.5°	19.4	18.4	15.3	13.3	14.3	11.3	17.4	18.4	15.3	17.4	18.4



REPORT NUMBER: P241026

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	17.4	17.4	13.3	11.3	11.3	9.2	12.3	13.3	13.3	17.4	18.4
112.5°	16.4	15.3	11.3	9.2	9.2	8.2	9.2	10.2	11.3	16.4	17.4
115°	15.3	14.3	10.2	8.2	7.2	6.1	7.2	8.2	10.2	16.4	16.4
117.5°	14.3	13.3	9.2	7.2	6.1	5.1	6.1	7.2	10.2	16.4	16.4
120°	14.3	13.3	9.2	6.1	5.1	5.1	5.1	6.1	11.3	16.4	17.4
122.5°	13.3	13.3	9.2	6.1	5.1	4.1	4.1	6.1	10.2	15.3	15.3
125°	13.3	13.3	8.2	5.1	4.1	4.1	4.1	5.1	10.2	14.3	15.3
127.5°	12.3	12.3	8.2	5.1	4.1	3.1	3.1	5.1	9.2	14.3	14.3
130°	12.3	12.3	8.2	4.1	3.1	3.1	3.1	4.1	9.2	13.3	13.3
132.5°	10.2	10.2	7.2	4.1	3.1	2.0	3.1	4.1	8.2	11.3	12.3
135°	10.2	10.2	7.2	4.1	3.1	2.0	2.0	4.1	7.2	10.2	10.2
137.5°	9.2	9.2	6.1	4.1	3.1	2.0	2.0	3.1	6.1	9.2	9.2
140°	8.2	8.2	7.2	4.1	3.1	2.0	2.0	2.0	5.1	7.2	7.2
142.5°	8.2	8.2	6.1	4.1	2.0	1.0	1.0	2.0	4.1	5.1	5.1
145°	7.2	7.2	6.1	4.1	2.0	1.0	1.0	2.0	3.1	4.1	4.1
147.5°	7.2	7.2	6.1	3.1	1.0	1.0	1.0	2.0	3.1	4.1	4.1
150°	6.1	6.1	4.1	2.0	0.0	0.0	1.0	1.0	2.0	3.1	3.1
152.5°	4.1	4.1	3.1	1.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0
155°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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: P241026

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	18.4	18.4	18.4	18.4	18.4	18.4	17.4	17.4	17.4	17.4	17.4
5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	18.4	19.4	19.4	19.4
7.5°	19.4	19.4	18.4	17.4	18.4	20.5	30.7	70.6	103.3	126.8	125.8
10°	31.7	31.7	29.7	25.6	31.7	69.6	137.1	138.1	114.6	105.4	109.5
12.5°	167.8	149.4	126.8	104.3	102.3	123.8	116.6	162.6	182.1	195.4	193.3
15°	192.3	203.6	186.2	208.7	213.8	126.8	198.5	266.0	286.4	294.6	303.8
17.5°	317.1	350.9	250.6	237.3	238.3	253.7	268.0	281.3	287.4	284.4	285.4
20°	477.7	455.2	489.0	417.4	319.2	339.6	311.0	306.9	405.1	492.0	480.8
22.5°	487.9	526.8	481.8	440.9	487.9	345.8	428.6	455.2	468.5	479.8	494.1
25°	789.7	771.3	675.1	506.4	481.8	461.4	465.4	475.7	501.2	540.1	563.6
27.5°	838.8	834.7	746.8	682.3	513.5	576.9	477.7	574.9	620.9	661.8	670.0
30°	1128.3	1139.6	859.3	655.7	595.4	494.1	554.4	592.3	628.1	685.4	686.4
32.5°	1198.9	1222.4	950.3	725.3	624.0	511.5	557.5	586.2	722.2	775.4	777.4
35°	1217.3	1277.7	980.0	699.7	602.5	509.4	514.5	612.7	680.3	788.7	827.6
37.5°	1410.6	1366.7	1041.4	708.9	563.6	490.0	555.5	588.2	694.6	764.1	777.4
40°	1492.5	1467.9	1081.3	727.3	556.5	545.2	514.5	548.3	598.4	648.6	648.6
42.5°	1644.9	1548.7	1103.8	714.0	541.1	585.1	469.5	507.4	554.4	524.8	537.0
45°	1847.4	1718.6	1180.5	643.4	512.5	497.2	451.1	509.4	479.8	479.8	473.6
47.5°	2109.3	1933.4	1154.9	618.9	576.9	470.6	595.4	478.7	441.9	458.3	459.3
50°	2523.6	2314.9	1233.7	602.5	547.3	461.4	509.4	462.4	462.4	473.6	469.5
52.5°	3043.3	2632.1	1267.4	601.5	517.6	537.0	505.3	553.4	478.7	518.6	513.5
55°	3605.8	3109.8	1302.2	593.3	512.5	484.9	617.9	529.9	497.2	569.8	571.8
57.5°	4318.8	3663.1	1445.4	576.9	514.5	485.9	583.1	593.3	605.6	653.7	660.8
60°	4762.8	3970.0	1318.6	607.6	509.4	554.4	678.2	662.9	625.0	803.0	829.6
62.5°	5101.4	4202.2	1086.4	633.2	602.5	558.5	700.7	773.4	738.6	810.2	830.6
65°	5162.7	4181.7	830.6	633.2	594.3	650.6	840.9	771.3	657.8	664.9	656.7
66°	5158.6	4119.3	765.2	638.3	602.5	678.2	825.5	780.5	636.3	643.4	628.1
67.5°	4989.9	3921.9	664.9	631.2	659.8	696.6	811.2	728.3	611.7	613.8	598.4
70°	4340.3	3308.2	565.7	648.6	684.4	698.7	886.9	678.2	561.6	547.3	544.2
72.5°	3192.6	2346.6	529.9	645.5	694.6	677.2	747.8	557.5	484.9	456.2	453.2
75°	1795.3	1198.9	527.8	618.9	614.8	581.0	565.7	429.6	401.0	367.2	361.1
77.5°	827.6	578.0	447.0	498.2	464.4	459.3	421.5	358.0	341.7	319.2	310.0
80°	478.7	408.2	318.1	330.4	333.5	324.3	340.6	322.2	304.8	288.5	273.1
82.5°	279.3	258.8	232.2	217.9	217.9	233.2	280.3	268.0	254.7	240.4	206.6
85°	174.9	167.8	158.6	152.4	152.4	140.1	201.5	224.0	211.8	181.1	161.6
87.5°	114.6	119.7	106.4	107.4	104.3	93.1	136.1	150.4	128.9	103.3	85.9
90°	52.2	57.3	62.4	61.4	66.5	51.1	74.7	76.7	68.5	47.1	33.8
92.5°	39.9	47.1	52.2	52.2	57.3	34.8	54.2	60.4	56.3	44.0	31.7
95°	33.8	41.9	50.1	49.1	49.1	27.6	50.1	56.3	53.2	37.8	27.6
97.5°	27.6	33.8	40.9	40.9	45.0	23.5	46.0	54.2	51.1	37.8	26.6
100°	25.6	30.7	35.8	36.8	40.9	18.4	41.9	51.1	46.0	31.7	25.6
102.5°	23.5	25.6	29.7	29.7	30.7	16.4	33.8	41.9	36.8	24.6	24.6
105°	21.5	21.5	21.5	19.4	19.4	13.3	20.5	28.6	22.5	19.4	21.5
107.5°	20.5	19.4	16.4	15.3	14.3	11.3	14.3	17.4	13.3	17.4	19.4



REPORT NUMBER: P241026

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	19.4	19.4	15.3	13.3	12.3	10.2	12.3	11.3	11.3	17.4	18.4
112.5°	19.4	18.4	13.3	11.3	10.2	9.2	10.2	8.2	10.2	17.4	18.4
115°	18.4	18.4	12.3	10.2	10.2	8.2	8.2	7.2	9.2	16.4	18.4
117.5°	18.4	18.4	12.3	9.2	8.2	7.2	7.2	7.2	9.2	16.4	18.4
120°	18.4	17.4	12.3	9.2	7.2	6.1	6.1	6.1	9.2	16.4	17.4
122.5°	17.4	16.4	11.3	8.2	7.2	6.1	5.1	6.1	9.2	15.3	16.4
125°	16.4	16.4	11.3	7.2	6.1	5.1	4.1	5.1	9.2	15.3	16.4
127.5°	16.4	15.3	10.2	6.1	5.1	5.1	4.1	5.1	9.2	14.3	15.3
130°	14.3	14.3	9.2	6.1	4.1	4.1	3.1	4.1	9.2	14.3	14.3
132.5°	13.3	12.3	8.2	5.1	4.1	3.1	3.1	3.1	8.2	12.3	13.3
135°	11.3	10.2	7.2	4.1	3.1	3.1	2.0	3.1	7.2	11.3	11.3
137.5°	9.2	9.2	7.2	4.1	3.1	2.0	2.0	3.1	7.2	10.2	11.3
140°	8.2	7.2	5.1	3.1	2.0	2.0	2.0	3.1	6.1	8.2	9.2
142.5°	6.1	6.1	4.1	3.1	2.0	2.0	1.0	2.0	5.1	7.2	7.2
145°	5.1	5.1	4.1	2.0	2.0	1.0	1.0	1.0	4.1	5.1	6.1
147.5°	4.1	4.1	3.1	2.0	1.0	1.0	0.0	1.0	3.1	4.1	4.1
150°	3.1	3.1	3.1	2.0	1.0	0.0	0.0	0.0	1.0	2.0	2.0
152.5°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	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)