

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: P241129

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-T2U-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5386.8 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U2 - G2

Input Watts (W): 54
Input Voltage (V): NR
Input Current (A_{in}): 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

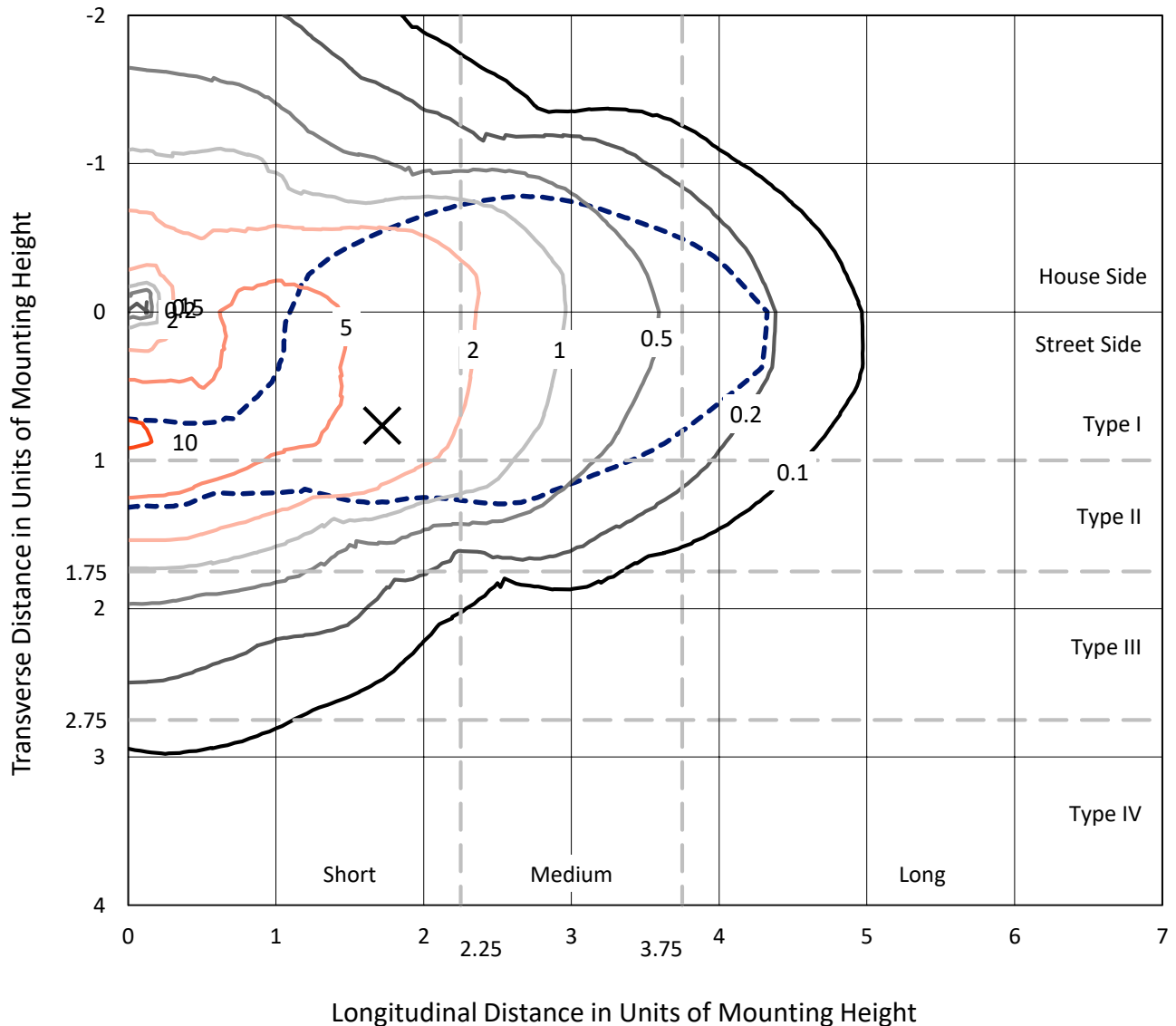


REPORT NUMBER: P241129

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

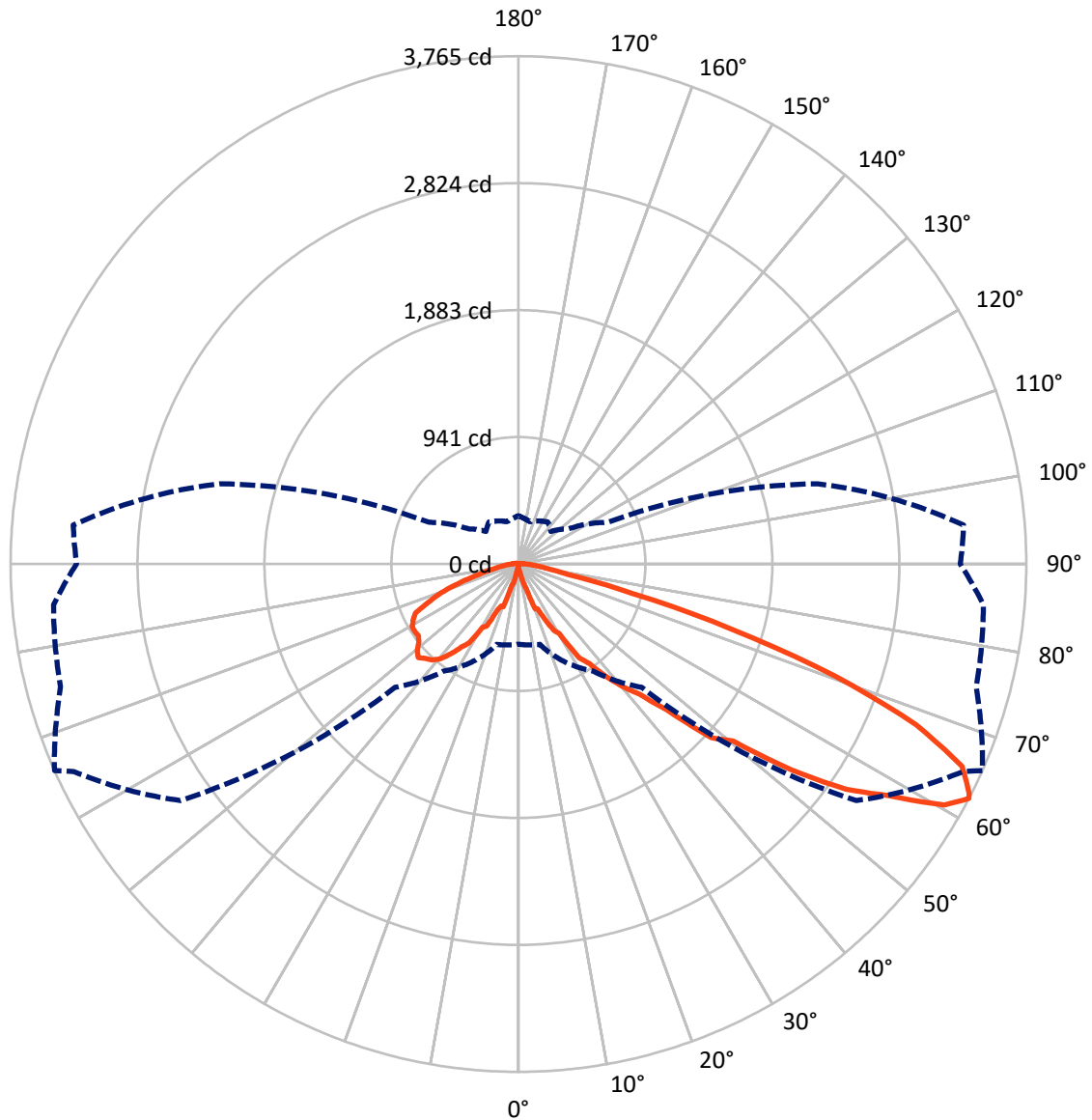


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P241129

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

REPORT NUMBER: P241129

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL

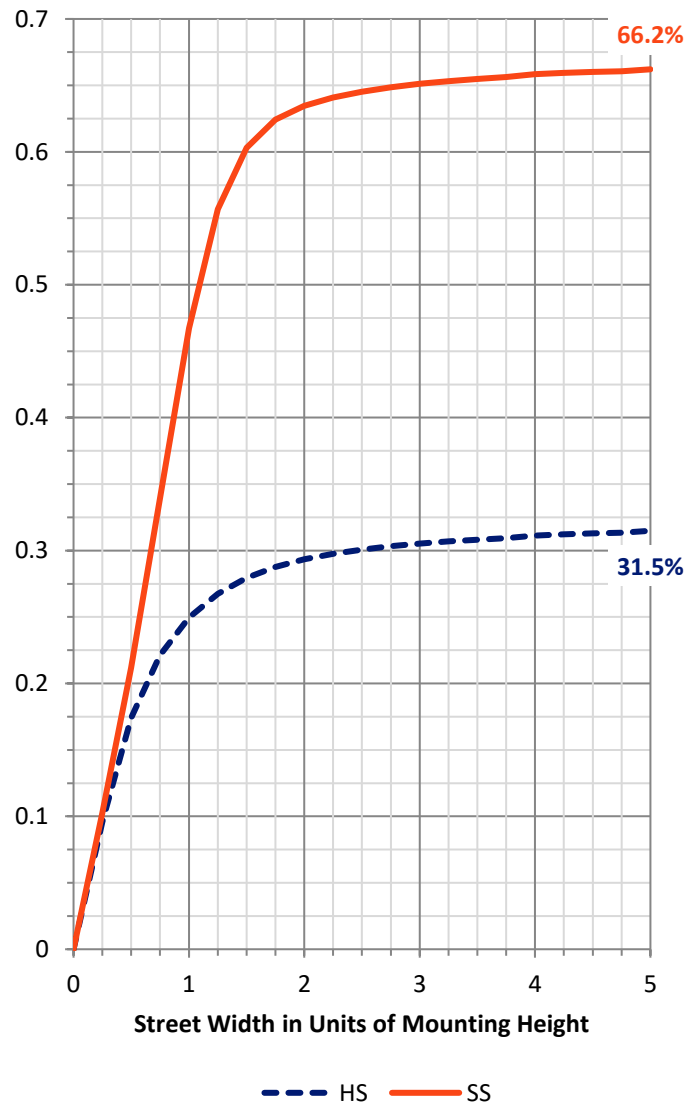
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.9	41.2	1769.1
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	3587.4	30.3	3617.7
	% Fixture	66.6	0.6	67.2
Total	Lumens	5315.4	71.4	5386.8
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.1
10°-20°	54.7	1.0
20°-30°	216.5	4.0
30°-40°	539.6	10.0
40°-50°	1028.9	19.1
50°-60°	1403.3	26.1
60°-70°	1289.1	23.9
70°-80°	657.6	12.2
80°-90°	121.0	2.2
90°-100°	32.0	0.6
100°-110°	15.4	0.3
110°-120°	9.3	0.2
120°-130°	7.1	0.1
130°-140°	4.8	0.1
140°-150°	2.3	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5315.4	98.7
0°-180°	5386.8	100.0

Coefficient of Utilization



REPORT NUMBER: P241129

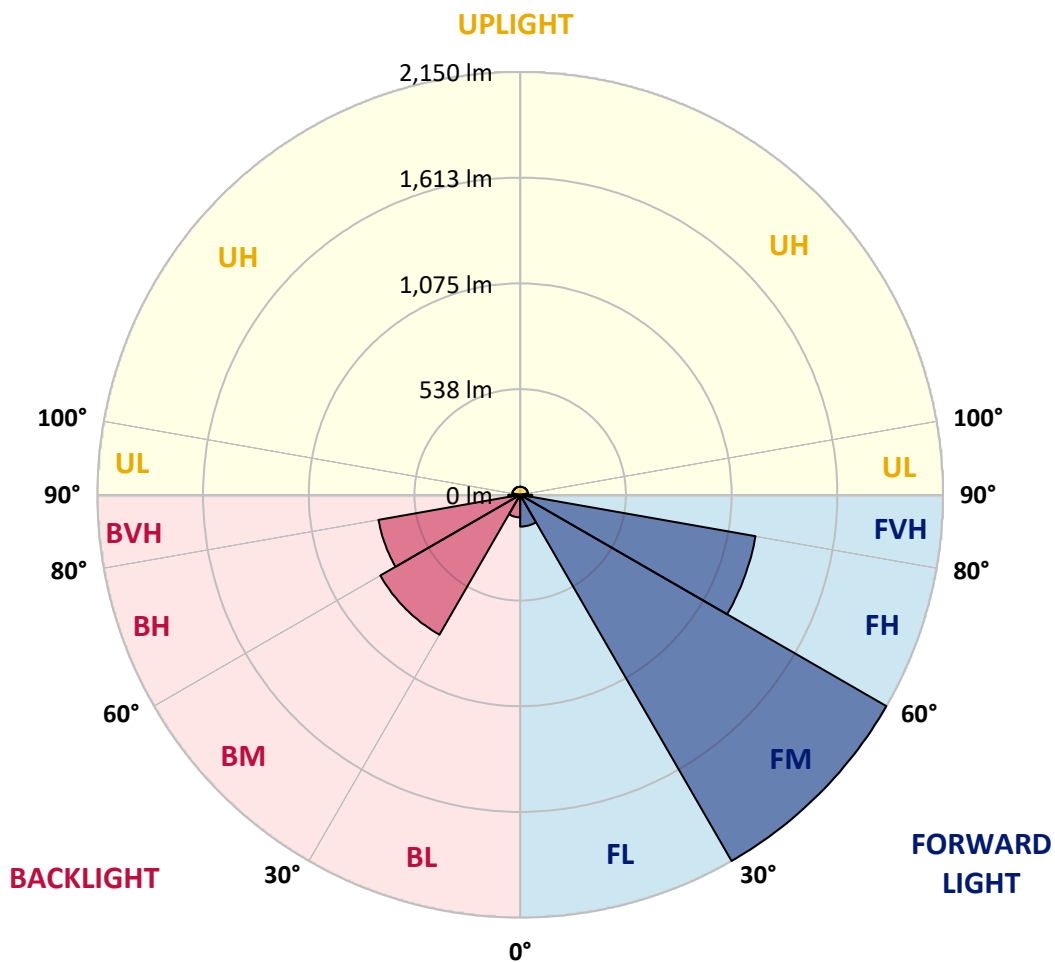
CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	161.4	3.0			
FM	(30°-60°)	2150.2	39.9			
FH	(60°-80°)	1215.1	22.6			G1/1800
FVH	(80°-90°)	60.7	1.1			G1/100
BL	(0°-30°)	114.5	2.1	B1/500		
BM	(30°-60°)	821.6	15.3	B1/1000		
BH	(60°-80°)	731.5	13.6	B2/1000		G2/1000
BVH	(80°-90°)	60.3	1.1			G1/100
UL	(90°-100°)	32.0	0.6		U2/50	
UH	(100°-180°)	41.2	0.8		U2/50	

BUG Rating: B2-U2-G2

Type II Short





REPORT NUMBER: P241129

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	67.0	63.6	47.8	41.7	35.2	28.5	21.9	18.6	17.9	16.6	15.2
5°	67.0	67.0	68.9	72.9	80.9	73.7	77.6	27.8	26.5	17.9	14.6
7.5°	128.0	124.7	156.5	110.8	69.7	65.0	98.8	60.4	60.4	27.8	16.6
10°	173.1	172.5	211.5	135.3	124.7	151.2	67.0	68.9	68.9	47.8	23.2
12.5°	169.8	168.5	171.1	186.4	156.5	132.7	134.6	88.2	110.1	173.8	178.4
15°	238.8	251.3	238.1	182.4	167.2	166.4	214.9	163.2	165.8	191.0	139.9
17.5°	318.3	319.7	348.2	295.8	232.8	246.0	227.5	228.1	201.6	211.5	236.8
20°	346.9	340.8	356.8	330.9	330.9	294.5	232.1	329.0	353.5	332.3	328.3
22.5°	595.6	592.9	518.6	362.7	375.4	344.2	351.5	383.3	360.2	338.3	332.3
25°	679.1	670.5	644.7	618.8	460.3	482.8	425.8	416.5	442.3	533.9	577.7
27.5°	903.3	913.3	780.0	696.4	620.7	519.4	486.8	598.2	555.2	584.3	577.7
30°	1136.8	1131.5	1084.3	931.2	780.0	644.7	646.0	628.1	598.9	688.4	781.9
32.5°	1473.7	1491.0	1275.4	1114.9	975.0	784.6	711.0	835.0	829.7	803.8	839.0
35°	1837.1	1834.5	1658.1	1393.5	1054.6	887.4	849.6	923.2	905.3	865.5	930.5
37.5°	2067.9	2042.0	1922.0	1694.5	1289.3	1011.4	1024.7	1078.4	1060.5	1008.1	1128.1
40°	2402.2	2373.7	2230.4	1921.4	1607.7	1225.6	1300.6	1256.8	1198.5	1189.2	1204.4
42.5°	2524.8	2526.2	2386.2	2161.5	1884.2	1532.1	1571.2	1378.8	1319.8	1418.6	1385.5
45°	2563.3	2558.1	2460.6	2292.1	2063.9	1898.2	1773.5	1601.0	1541.3	1631.5	1667.3
47.5°	2479.1	2457.9	2473.8	2285.5	2253.7	2058.0	2032.1	1910.1	1923.4	1872.3	1956.5
50°	2252.9	2221.7	2263.6	2214.5	2350.4	2231.1	2532.2	2069.9	2062.6	2154.8	2259.6
52.5°	1902.1	1879.0	2014.2	1973.8	2329.3	2420.1	2631.6	2530.2	2536.8	2545.4	2488.4
55°	1558.6	1570.5	1674.0	1650.1	2022.2	2461.2	2963.9	2907.5	2946.0	2732.5	2733.1
57.5°	1112.9	1139.5	1325.7	1339.8	1685.2	2164.8	3230.6	3140.4	3239.2	3039.6	3084.0
60°	766.7	782.6	883.4	1024.0	1264.8	1797.3	3088.6	3538.3	3627.8	3351.9	3350.0
62°	594.9	601.5	616.8	796.6	971.0	1292.0	3057.5	3638.4	3765.1	3513.7	3459.4
62.5°	551.8	559.1	569.1	722.9	895.4	1174.6	2940.8	3660.3	3750.5	3534.3	3477.9
65°	441.7	445.0	422.5	480.8	632.7	701.6	2113.0	3557.5	3615.2	3509.1	3424.2
67.5°	409.2	397.3	366.1	350.2	473.5	452.3	1150.0	3032.2	3181.5	3358.6	3270.4
70°	338.9	365.4	340.2	313.0	378.1	347.5	488.2	2454.0	2495.7	3074.7	3062.7
72.5°	259.3	278.5	298.5	295.1	291.1	279.9	324.3	1533.4	1656.1	2523.5	2835.9
75°	210.2	218.2	260.0	251.3	258.7	221.5	255.3	728.9	882.1	1786.1	2466.5
77.5°	169.1	174.4	202.2	195.0	214.2	173.1	203.6	330.3	374.1	1026.6	1689.2
80°	112.1	114.8	147.2	145.9	156.5	153.2	153.9	231.5	234.2	480.2	884.0
82.5°	83.6	82.2	101.5	102.1	101.5	110.8	105.5	158.6	165.1	235.5	293.8
85°	54.4	52.4	60.4	64.3	61.7	61.0	79.6	111.4	116.1	167.8	175.1
87.5°	29.9	31.8	39.8	39.8	41.7	41.1	65.0	74.3	77.6	112.1	94.2
90°	19.9	19.9	21.9	21.2	22.5	21.9	33.9	43.8	44.4	56.4	50.4
92.5°	17.9	19.2	21.9	21.9	23.8	20.6	30.5	37.1	37.8	45.7	38.5
95°	16.0	16.6	18.6	19.2	20.6	14.6	23.2	30.5	31.2	37.8	31.2
97.5°	13.3	14.6	16.0	16.6	18.6	13.3	19.2	24.6	25.2	29.2	23.8
100°	13.3	13.9	13.9	13.9	16.0	11.3	16.6	21.2	21.9	23.8	19.9
102.5°	12.6	13.3	12.6	12.0	13.3	9.9	14.6	17.9	17.9	17.3	16.6
105°	12.6	12.6	10.6	9.3	11.3	9.3	12.6	13.3	13.3	13.3	15.2
107.5°	12.0	12.0	9.9	8.6	9.3	8.0	10.6	11.3	11.3	12.0	14.6



REPORT NUMBER: P241129

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	11.3	10.6	8.6	7.3	7.3	7.3	8.6	9.3	9.3	10.6	15.2
112.5°	9.9	9.9	7.3	6.6	6.6	6.6	8.0	8.6	8.6	9.9	14.6
115°	9.3	9.3	7.3	5.9	5.9	5.9	7.3	8.0	8.0	9.3	14.6
117.5°	9.9	9.3	6.6	5.9	5.3	5.3	5.9	7.3	7.3	9.3	14.6
120°	8.6	8.6	6.6	5.3	4.6	5.3	5.9	6.6	7.3	9.9	14.6
122.5°	9.3	8.6	6.6	4.6	4.6	4.6	5.3	6.6	6.6	9.3	13.3
125°	8.6	8.0	5.9	4.6	4.0	4.6	5.3	5.9	6.6	9.3	13.3
127.5°	8.6	8.0	5.9	4.6	4.0	4.0	5.3	5.9	5.9	8.6	12.6
130°	8.0	8.0	5.3	4.0	4.0	4.0	4.6	5.3	5.3	8.0	11.3
132.5°	7.3	6.6	5.3	4.0	3.3	4.0	4.6	4.6	4.6	7.3	10.6
135°	6.6	6.6	5.3	4.0	3.3	3.3	4.0	4.6	4.6	6.6	9.3
137.5°	5.9	5.9	5.3	4.0	3.3	3.3	3.3	4.0	4.0	5.9	8.0
140°	5.9	5.9	5.3	4.0	3.3	3.3	3.3	3.3	3.3	4.6	6.6
142.5°	5.9	5.9	5.3	4.0	3.3	2.7	2.7	2.7	2.7	4.0	5.3
145°	5.3	5.3	4.6	4.0	2.7	1.9	1.9	2.7	2.7	3.3	4.0
147.5°	5.3	5.3	4.6	3.3	1.9	1.3	1.3	1.9	1.9	2.7	3.3
150°	4.0	4.0	4.0	2.7	1.3	0.0	1.3	1.3	1.3	2.7	2.7
152.5°	2.7	2.7	1.9	1.3	0.6	0.6	0.6	1.3	1.3	1.3	1.9
155°	1.3	1.3	1.3	0.6	0.6	0.0	0.0	0.6	0.6	1.3	1.3
157.5°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6
160°	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6
162.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6
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: P241129

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	15.2	14.6	14.6	14.6	15.2	15.2	15.2	14.6	13.9	13.9	13.9
5°	13.9	13.3	13.3	13.3	13.9	13.9	13.9	13.9	13.9	13.9	13.9
7.5°	15.2	13.9	13.9	13.3	13.3	13.9	15.2	22.5	39.2	55.0	64.3
10°	21.2	21.2	18.6	17.3	17.3	25.2	93.5	101.5	101.5	96.2	92.9
12.5°	192.3	151.9	134.0	47.1	38.5	78.3	89.5	84.2	116.7	136.0	143.9
15°	139.3	152.5	164.5	147.9	199.7	83.6	135.3	164.5	221.5	224.1	226.2
17.5°	234.2	252.7	182.4	159.2	186.4	247.3	202.2	209.6	209.6	209.6	210.2
20°	329.6	335.6	350.2	334.9	187.0	260.6	259.3	210.9	237.4	295.8	312.4
22.5°	350.2	362.1	344.8	334.3	395.3	243.4	267.9	335.6	339.6	323.7	331.6
25°	594.2	577.0	506.7	356.8	394.7	340.2	346.2	314.4	322.9	313.7	319.7
27.5°	589.6	580.3	524.0	514.6	414.5	402.5	321.6	362.7	385.3	400.0	397.3
30°	823.7	769.4	606.8	531.2	489.5	385.3	353.5	343.5	340.8	358.1	359.5
32.5°	827.7	819.8	699.1	687.1	503.4	389.9	333.6	313.7	358.1	382.0	378.1
35°	960.3	919.2	799.2	741.4	578.4	366.7	297.8	313.7	321.0	338.3	337.6
37.5°	1079.1	1066.4	968.3	819.1	557.1	334.3	336.2	334.3	325.6	328.3	328.3
40°	1237.0	1167.3	1079.7	891.4	521.3	358.1	362.7	315.7	307.1	302.4	302.4
42.5°	1424.6	1306.5	1225.6	926.5	495.4	421.8	343.5	308.4	299.8	286.5	284.5
45°	1646.1	1499.5	1378.2	937.8	415.8	437.1	356.8	350.9	322.3	310.4	305.8
47.5°	1840.5	1722.3	1554.0	956.4	482.1	417.2	469.5	398.6	311.1	328.3	325.6
50°	2132.2	1980.4	1677.3	909.3	515.4	405.2	488.2	348.8	320.3	343.5	342.2
52.5°	2390.2	2245.7	1806.6	838.3	487.4	560.5	433.1	400.0	371.4	359.5	358.1
55°	2660.2	2515.6	1894.2	802.5	481.5	448.4	450.3	433.1	335.6	361.4	360.8
57.5°	2970.5	2891.0	2084.5	787.3	493.5	396.0	450.3	362.1	382.7	361.4	365.4
60°	3136.4	3136.4	2195.3	772.0	455.6	406.5	386.7	397.9	332.3	336.2	346.9
62°	3275.7	3312.8	2296.7	731.5	454.3	340.8	380.0	351.5	325.0	344.8	358.1
62.5°	3322.7	3351.3	2327.2	723.5	465.5	322.9	352.2	350.9	337.0	339.6	351.5
65°	3368.5	3500.5	2400.3	673.2	428.4	305.0	301.1	333.0	291.8	279.3	279.9
67.5°	3324.7	3506.5	2375.7	541.9	347.5	262.0	266.0	277.9	263.3	258.7	261.3
70°	3164.9	3238.6	2125.6	447.0	299.8	240.1	255.3	245.4	241.4	240.7	240.1
72.5°	2946.0	2806.1	1669.4	336.2	258.0	208.3	218.9	226.2	227.5	224.1	220.1
75°	2485.1	2203.8	1089.0	252.1	206.2	176.5	199.7	205.6	210.9	201.6	198.4
77.5°	1705.8	1389.5	563.7	200.3	178.4	147.9	175.1	184.3	189.7	175.7	177.8
80°	791.9	634.0	260.6	163.8	147.9	122.7	148.5	160.5	167.8	149.2	142.6
82.5°	267.3	244.1	157.2	126.6	121.3	93.5	120.1	134.0	136.0	124.0	105.5
85°	159.2	159.9	110.1	97.5	89.5	58.4	86.2	105.5	105.5	87.6	71.6
87.5°	91.6	102.8	84.2	74.3	67.0	39.8	64.3	72.3	71.0	55.8	39.8
90°	45.7	53.7	49.7	49.1	50.4	25.2	50.4	54.4	54.4	38.5	24.6
92.5°	33.9	41.1	44.4	41.7	42.5	19.2	40.4	41.1	40.4	29.9	19.2
95°	28.5	35.8	44.4	41.7	40.4	16.0	37.1	37.8	38.5	29.2	21.2
97.5°	22.5	27.2	34.5	33.9	36.5	13.3	33.9	33.9	32.5	23.8	17.9
100°	20.6	23.8	29.2	29.2	31.8	12.0	29.9	27.2	25.9	19.2	16.6
102.5°	17.3	19.2	22.5	21.9	23.8	11.3	21.9	21.2	19.9	16.6	16.0
105°	16.6	17.3	17.3	16.0	16.6	10.6	15.2	14.6	13.9	13.9	14.6
107.5°	16.0	16.0	14.6	13.3	13.3	9.9	11.3	10.6	11.3	14.6	15.2



REPORT NUMBER: P241129

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	16.0	16.0	13.3	12.0	10.6	9.3	9.9	8.6	9.9	14.6	16.0
112.5°	16.0	16.0	12.0	9.9	9.9	8.6	8.6	8.0	9.3	14.6	16.0
115°	15.2	15.2	11.3	9.3	8.6	8.0	8.0	7.3	9.3	14.6	16.0
117.5°	15.2	15.2	11.3	9.3	8.0	7.3	7.3	6.6	9.3	15.2	16.0
120°	15.2	15.2	11.3	8.6	8.0	7.3	6.6	6.6	9.3	14.6	16.0
122.5°	14.6	13.9	10.6	8.0	7.3	6.6	6.6	6.6	9.3	15.2	16.0
125°	13.9	13.3	10.6	8.0	6.6	6.6	5.9	5.9	9.3	14.6	15.2
127.5°	13.3	13.3	9.9	7.3	6.6	5.9	5.9	5.9	9.3	15.2	15.2
130°	12.6	12.0	9.3	6.6	5.9	5.3	5.3	5.9	9.9	13.9	14.6
132.5°	11.3	10.6	8.6	5.9	5.3	5.3	5.3	5.3	9.3	13.9	13.9
135°	9.3	9.3	7.3	5.3	4.6	4.6	4.6	5.3	8.6	12.0	12.6
137.5°	8.6	8.0	6.6	5.3	4.0	4.6	4.6	5.3	8.6	11.3	12.0
140°	7.3	6.6	5.3	4.0	4.0	4.0	4.0	4.6	7.3	9.9	10.6
142.5°	5.3	5.3	4.6	3.3	3.3	3.3	3.3	4.6	6.6	8.6	8.6
145°	4.6	4.6	4.0	3.3	2.7	1.9	1.9	3.3	5.3	7.3	7.3
147.5°	3.3	3.3	3.3	2.7	1.9	1.9	1.9	2.7	4.0	5.3	5.3
150°	2.7	2.7	2.7	1.9	1.9	1.3	1.3	1.9	3.3	4.0	4.0
152.5°	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3	1.9	2.7	2.7
155°	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	1.3	1.3
157.5°	0.6	0.6	0.6	1.3	1.3	1.3	0.6	0.6	0.0	0.0	0.0
160°	0.6	0.6	0.6	1.3	1.3	1.3	0.6	0.6	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.6	1.3	1.3	0.6	0.6	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)