

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: P241130

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241130
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-AF24-60-D-U-T2U-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 6261.5 lumens
Efficiency: N/A
Efficacy: 97.8 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): 64
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

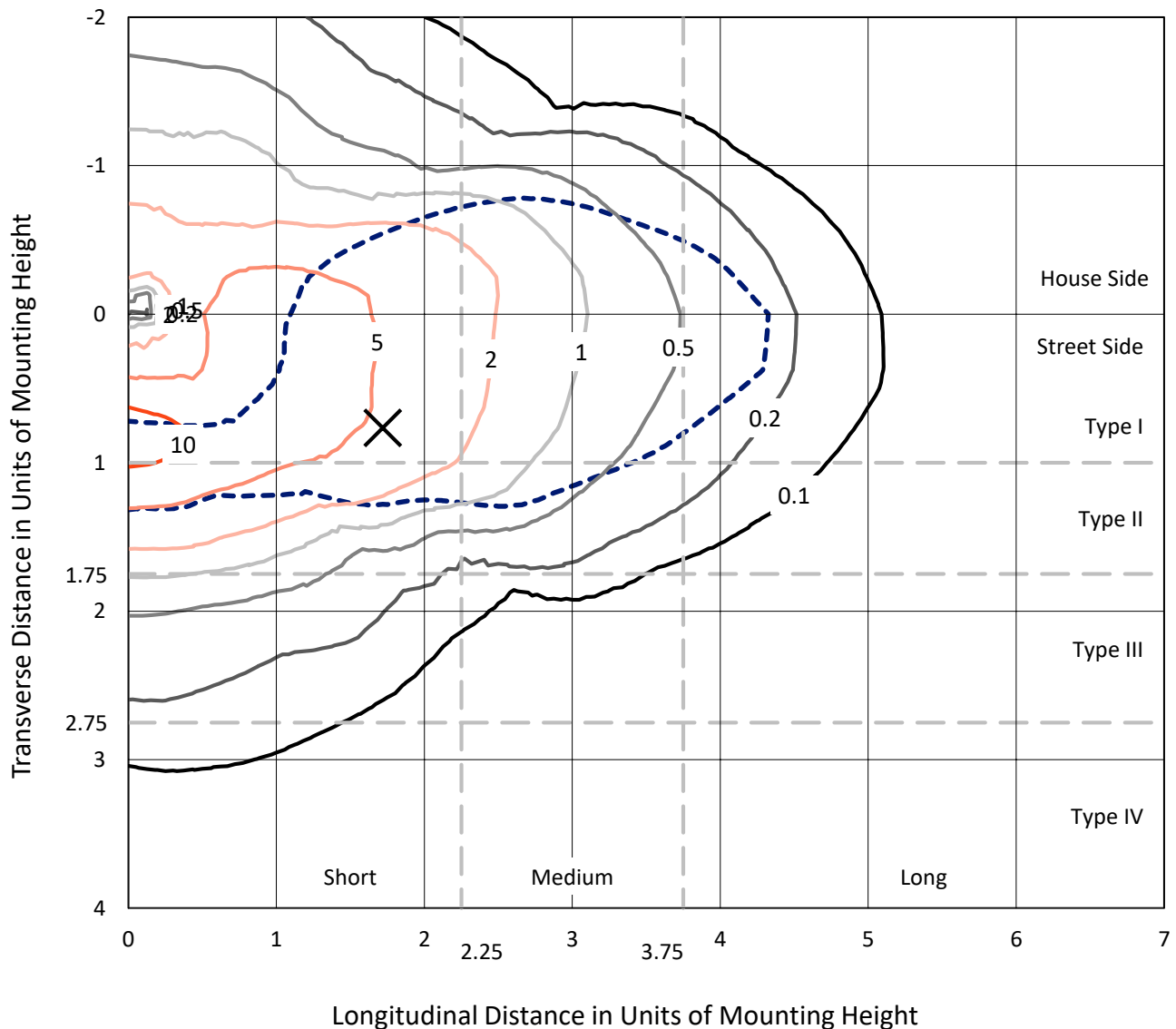


REPORT NUMBER: P241130

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-CL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

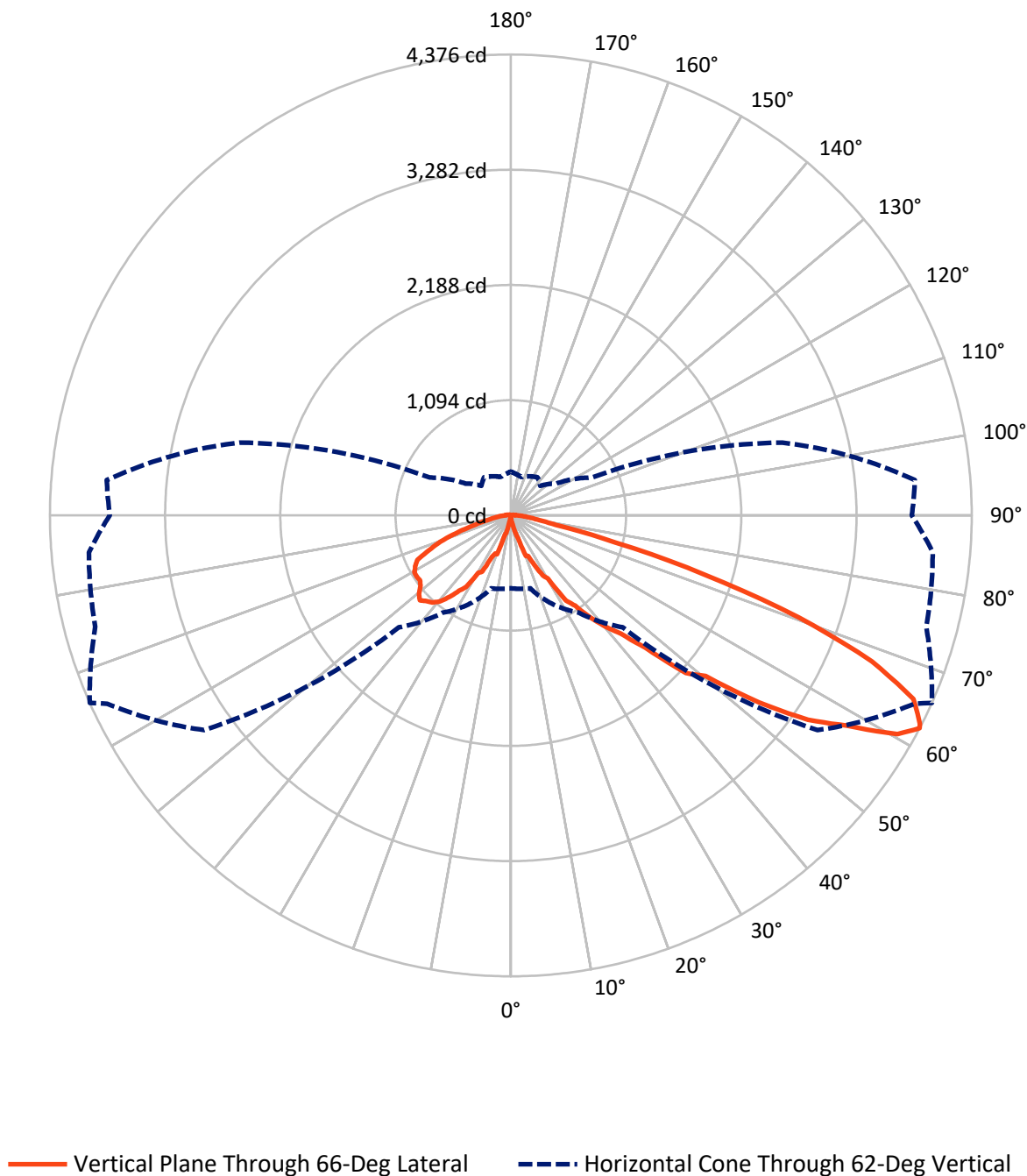


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P241130

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-CL

Luminous Intensity Polar Plot



REPORT NUMBER: P241130

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-CL

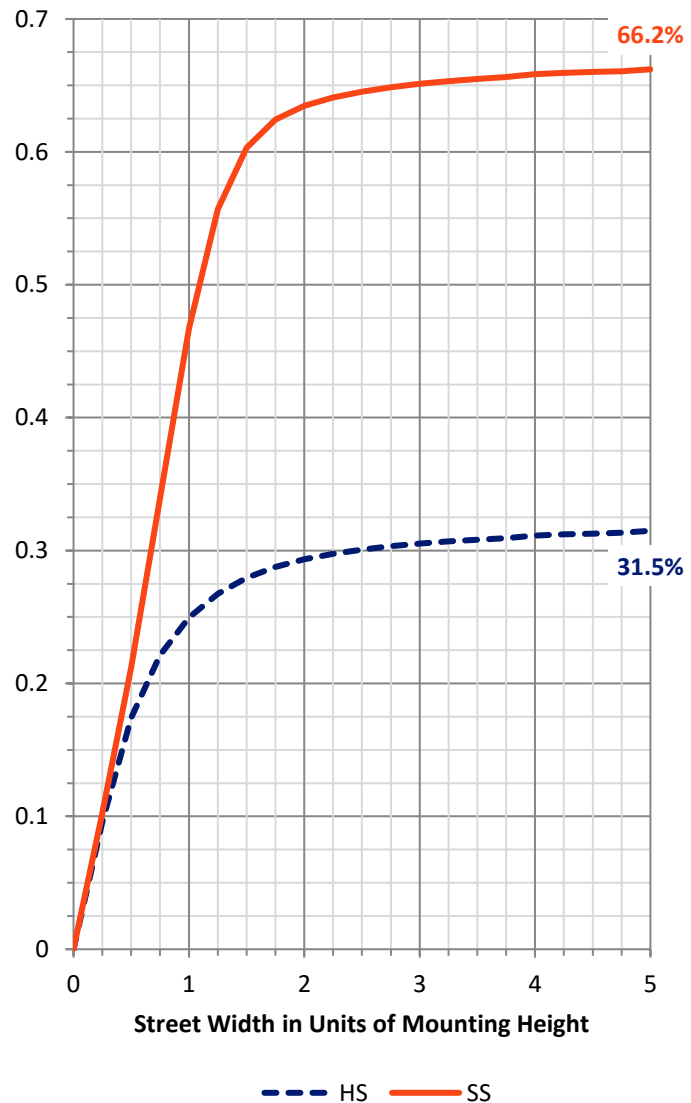
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2008.5	47.9	2056.4
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	4169.9	35.2	4205.1
	% Fixture	66.6	0.6	67.2
Total	Lumens	6178.4	83.1	6261.5
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	63.6	1.0
20°-30°	251.7	4.0
30°-40°	627.2	10.0
40°-50°	1196.0	19.1
50°-60°	1631.1	26.0
60°-70°	1498.4	23.9
70°-80°	764.3	12.2
80°-90°	140.6	2.2
90°-100°	37.2	0.6
100°-110°	17.9	0.3
110°-120°	10.8	0.2
120°-130°	8.3	0.1
130°-140°	5.5	0.1
140°-150°	2.7	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6178.4	98.7
0°-180°	6261.5	100.0

Coefficient of Utilization



REPORT NUMBER: P241130

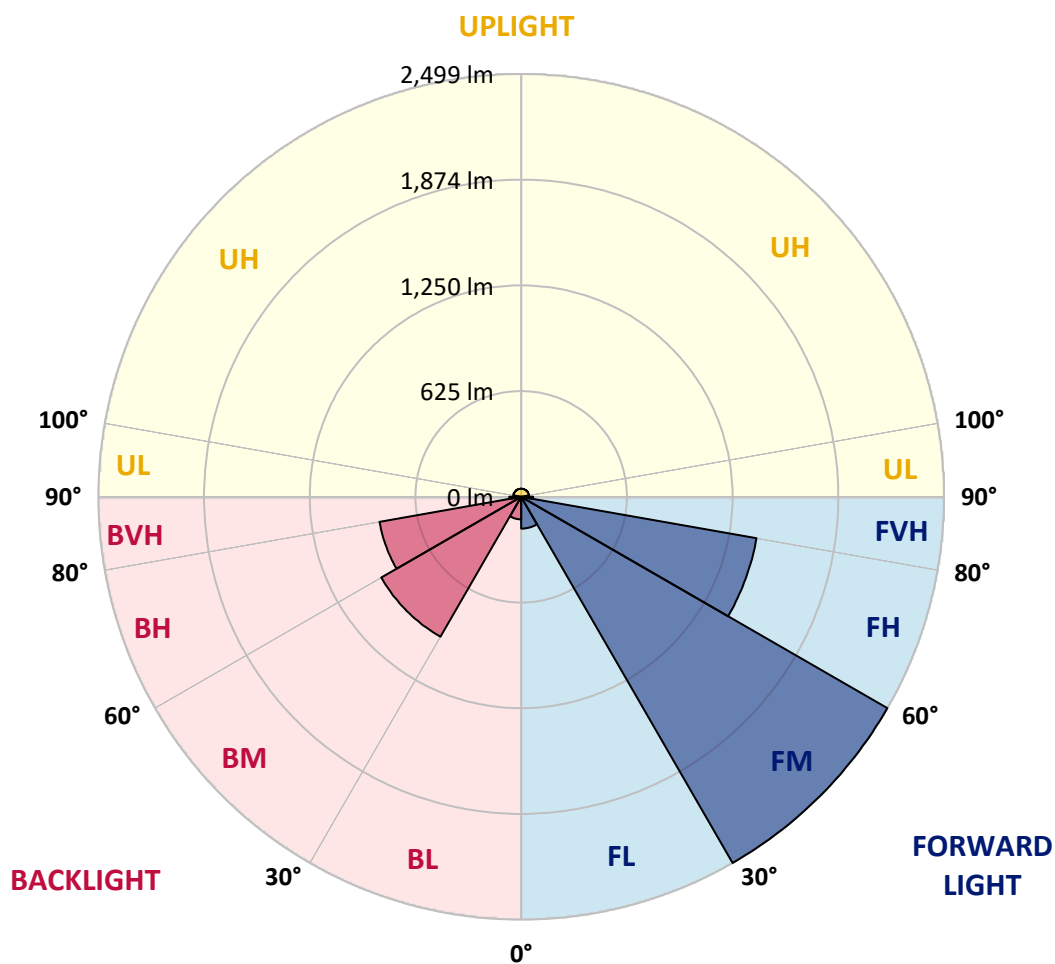
CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.7	3.0			
FM	(30°-60°)	2499.3	39.9			
FH	(60°-80°)	1412.4	22.6			G1/1800
FVH	(80°-90°)	70.5	1.1			G1/100
BL	(0°-30°)	133.1	2.1	B1/500		
BM	(30°-60°)	955.0	15.3	B1/1000		
BH	(60°-80°)	850.3	13.6	B2/1000		G2/1000
BVH	(80°-90°)	70.1	1.1			G1/100
UL	(90°-100°)	37.2	0.6		U2/50	
UH	(100°-180°)	47.9	0.8		U2/50	

BUG Rating: B2-U2-G2

Type II Short





REPORT NUMBER: P241130

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-CL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
2.5°	77.8	74.0	55.5	48.6	40.8	33.1	25.5	21.6	20.8	19.2	17.7
5°	77.8	77.8	80.2	84.8	94.0	85.6	90.2	32.4	30.8	20.8	17.0
7.5°	148.7	145.0	182.0	128.8	80.9	75.6	114.9	70.2	70.2	32.4	19.2
10°	201.2	200.4	245.9	157.2	145.0	175.7	77.8	80.2	80.2	55.5	27.0
12.5°	197.3	195.8	198.9	216.7	182.0	154.2	156.5	102.5	128.0	201.9	207.4
15°	277.5	292.2	276.7	212.0	194.3	193.5	249.8	189.7	192.7	222.0	162.6
17.5°	370.0	371.5	404.7	343.8	270.6	286.0	264.4	265.1	234.4	245.9	275.2
20°	403.1	396.3	414.7	384.7	384.7	342.3	269.9	382.4	410.9	386.3	381.6
22.5°	692.2	689.2	602.8	421.7	436.3	400.1	408.6	445.6	418.6	393.1	386.3
25°	789.4	779.4	749.3	719.2	535.0	561.2	494.9	484.2	514.2	620.6	671.5
27.5°	1050.0	1061.5	906.5	809.5	721.6	603.6	565.8	695.4	645.3	679.1	671.5
30°	1321.3	1315.2	1260.5	1082.4	906.5	749.3	750.8	730.1	696.1	800.2	908.9
32.5°	1712.9	1733.0	1482.5	1295.9	1133.2	912.0	826.4	970.6	964.4	934.4	975.2
35°	2135.4	2132.3	1927.2	1619.6	1225.7	1031.4	987.6	1073.1	1052.3	1006.1	1081.6
37.5°	2403.7	2373.7	2234.1	1969.7	1498.6	1175.7	1191.0	1253.5	1232.7	1171.8	1311.3
40°	2792.2	2759.1	2592.6	2233.3	1868.7	1424.7	1511.7	1460.9	1393.1	1382.2	1400.0
42.5°	2934.8	2936.4	2773.7	2512.4	2190.1	1780.8	1826.3	1602.8	1534.1	1649.0	1610.4
45°	2979.5	2973.4	2860.1	2664.3	2399.0	2206.3	2061.5	1861.0	1791.6	1896.4	1938.1
47.5°	2881.7	2857.0	2875.5	2656.5	2619.6	2392.2	2362.1	2220.2	2235.7	2176.2	2274.1
50°	2618.8	2582.5	2631.1	2574.1	2732.1	2593.3	2943.3	2406.0	2397.5	2504.7	2626.4
52.5°	2211.0	2184.0	2341.2	2294.2	2707.4	2813.0	3058.9	2941.0	2948.8	2958.8	2892.4
55°	1811.6	1825.5	1945.8	1918.0	2350.5	2860.8	3445.2	3379.6	3424.3	3176.2	3176.9
57.5°	1293.6	1324.4	1541.1	1557.2	1958.8	2516.3	3755.0	3650.2	3765.1	3533.1	3584.7
60°	891.2	909.7	1026.8	1190.3	1470.1	2089.2	3590.1	4112.8	4216.8	3896.1	3893.9
62°	691.5	699.2	717.0	925.9	1128.6	1501.7	3553.8	4229.2	4376.4	4084.2	4021.0
62.5°	641.4	649.9	661.4	840.3	1040.8	1365.2	3418.2	4254.7	4359.5	4108.2	4042.6
65°	513.4	517.3	491.0	558.9	735.4	815.6	2456.1	4135.2	4202.2	4078.8	3980.2
67.5°	475.7	461.8	425.5	407.0	550.4	525.8	1336.8	3524.6	3698.1	3903.9	3801.3
70°	393.9	424.7	395.5	363.9	439.5	404.0	567.4	2852.4	2900.9	3573.9	3560.1
72.5°	301.5	323.8	346.9	343.1	338.4	325.3	377.0	1782.3	1925.0	2933.3	3296.4
75°	244.4	253.6	302.2	292.2	300.6	257.5	296.8	847.2	1025.3	2076.1	2867.0
77.5°	196.6	202.7	235.2	226.7	249.0	201.2	236.7	383.9	434.8	1193.4	1963.5
80°	130.3	133.4	171.1	169.6	182.0	178.1	178.8	269.0	272.1	558.1	1027.7
82.5°	97.2	95.5	117.9	118.8	117.9	128.8	122.5	184.2	191.9	273.6	341.5
85°	63.2	60.9	70.2	74.8	71.7	70.9	92.5	129.5	134.9	195.1	203.6
87.5°	34.7	37.0	46.2	46.2	48.6	47.8	75.6	86.3	90.2	130.3	109.5
90°	23.1	23.1	25.5	24.7	26.2	25.5	39.3	50.8	51.7	65.6	58.6
92.5°	20.8	22.4	25.5	25.5	27.7	23.9	35.5	43.2	44.0	53.2	44.7
95°	18.5	19.2	21.6	22.4	23.9	17.0	27.0	35.5	36.2	44.0	36.2
97.5°	15.4	17.0	18.5	19.2	21.6	15.4	22.4	28.5	29.3	34.0	27.7
100°	15.4	16.2	16.2	16.2	18.5	13.1	19.2	24.7	25.5	27.7	23.1
102.5°	14.6	15.4	14.6	13.9	15.4	11.6	17.0	20.8	20.8	20.0	19.2
105°	14.6	14.6	12.4	10.8	13.1	10.8	14.6	15.4	15.4	15.4	17.7
107.5°	13.9	13.9	11.6	10.0	10.8	9.2	12.4	13.1	13.1	13.9	17.0



REPORT NUMBER: P241130

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	13.1	12.4	10.0	8.5	8.5	8.5	10.0	10.8	10.8	12.4	17.7
112.5°	11.6	11.6	8.5	7.7	7.7	7.7	9.2	10.0	10.0	11.6	17.0
115°	10.8	10.8	8.5	7.0	7.0	7.0	8.5	9.2	9.2	10.8	17.0
117.5°	11.6	10.8	7.7	7.0	6.1	6.1	7.0	8.5	8.5	10.8	17.0
120°	10.0	10.0	7.7	6.1	5.4	6.1	7.0	7.7	8.5	11.6	17.0
122.5°	10.8	10.0	7.7	5.4	5.4	5.4	6.1	7.7	7.7	10.8	15.4
125°	10.0	9.2	7.0	5.4	4.6	5.4	6.1	7.0	7.7	10.8	15.4
127.5°	10.0	9.2	7.0	5.4	4.6	4.6	6.1	7.0	7.0	10.0	14.6
130°	9.2	9.2	6.1	4.6	4.6	4.6	5.4	6.1	6.1	9.2	13.1
132.5°	8.5	7.7	6.1	4.6	3.9	4.6	5.4	5.4	5.4	8.5	12.4
135°	7.7	7.7	6.1	4.6	3.9	3.9	4.6	5.4	5.4	7.7	10.8
137.5°	7.0	7.0	6.1	4.6	3.9	3.9	3.9	4.6	4.6	7.0	9.2
140°	7.0	7.0	6.1	4.6	3.9	3.9	3.9	3.9	3.9	5.4	7.7
142.5°	7.0	7.0	6.1	4.6	3.9	3.1	3.1	3.1	3.1	4.6	6.1
145°	6.1	6.1	5.4	4.6	3.1	2.4	2.4	3.1	3.1	3.9	4.6
147.5°	6.1	6.1	5.4	3.9	2.4	1.5	1.5	2.4	2.4	3.1	3.9
150°	4.6	4.6	4.6	3.1	1.5	0.0	1.5	1.5	1.5	3.1	3.1
152.5°	3.1	3.1	2.4	1.5	0.8	0.8	0.8	1.5	1.5	1.5	2.4
155°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.8	0.8	1.5	1.5
157.5°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
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: P241130

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
2.5°	17.7	17.0	17.0	17.0	17.7	17.7	17.7	17.0	16.2	16.2	16.2
5°	16.2	15.4	15.4	15.4	16.2	16.2	16.2	16.2	16.2	16.2	16.2
7.5°	17.7	16.2	16.2	15.4	15.4	16.2	17.7	26.2	45.5	63.9	74.8
10°	24.7	24.7	21.6	20.0	20.0	29.3	108.7	117.9	117.9	111.8	107.9
12.5°	223.5	176.6	155.7	54.7	44.7	90.9	104.0	97.9	135.6	158.0	167.3
15°	161.9	177.3	191.2	172.0	232.0	97.2	157.2	191.2	257.5	260.5	262.9
17.5°	272.1	293.7	212.0	185.1	216.7	287.6	235.2	243.6	243.6	243.6	244.4
20°	383.1	390.1	407.0	389.3	217.4	303.0	301.5	245.1	276.0	343.8	363.1
22.5°	407.0	420.9	400.9	388.5	459.5	282.9	311.5	390.1	394.7	376.2	385.4
25°	690.7	670.6	589.0	414.7	458.7	395.5	402.4	365.4	375.4	364.7	371.5
27.5°	685.4	674.5	609.1	598.2	481.8	467.9	373.9	421.7	447.8	464.8	461.8
30°	957.5	894.3	705.4	617.5	569.0	447.8	410.9	399.4	396.3	416.2	417.9
32.5°	962.1	952.9	812.5	798.6	585.1	453.3	387.8	364.7	416.2	444.1	439.5
35°	1116.2	1068.5	928.9	861.8	672.2	426.3	346.2	364.7	373.1	393.1	392.4
37.5°	1254.2	1239.6	1125.6	952.1	647.5	388.5	390.9	388.5	378.5	381.6	381.6
40°	1437.8	1356.8	1255.1	1036.1	605.9	416.2	421.7	366.9	356.9	351.5	351.5
42.5°	1656.0	1518.7	1424.7	1077.0	575.8	490.3	399.4	358.4	348.4	333.1	330.7
45°	1913.4	1743.0	1601.9	1090.1	483.3	508.0	414.7	407.9	374.7	360.8	355.4
47.5°	2139.3	2002.0	1806.2	1111.6	560.5	484.9	545.8	463.3	361.5	381.6	378.5
50°	2478.5	2301.9	1949.6	1056.9	599.0	471.1	567.4	405.5	372.4	399.4	397.8
52.5°	2778.3	2610.3	2099.9	974.5	566.6	651.4	503.4	464.8	431.7	417.9	416.2
55°	3092.1	2924.0	2201.7	932.8	559.7	521.1	523.4	503.4	390.1	420.1	419.4
57.5°	3452.9	3360.4	2423.0	915.0	573.6	460.2	523.4	420.9	444.8	420.1	424.7
60°	3645.6	3645.6	2551.6	897.3	529.6	472.6	449.5	462.6	386.3	390.9	403.1
62°	3807.5	3850.7	2669.7	850.3	528.0	396.3	441.7	408.6	377.8	400.9	416.2
62.5°	3862.3	3895.4	2705.1	841.1	541.1	375.4	409.4	407.9	391.6	394.7	408.6
65°	3915.4	4068.9	2789.9	782.5	498.0	354.7	350.0	387.0	339.2	324.6	325.3
67.5°	3864.5	4075.7	2761.4	629.8	404.0	304.5	309.1	323.0	306.1	300.6	303.7
70°	3678.7	3764.4	2470.7	519.6	348.4	279.1	296.8	285.2	280.6	279.9	279.1
72.5°	3424.3	3261.7	1940.3	390.9	299.9	242.0	254.4	262.9	264.4	260.5	255.9
75°	2888.6	2561.7	1265.8	293.0	239.8	205.1	232.0	239.0	245.1	234.4	230.5
77.5°	1982.8	1615.0	655.3	232.8	207.4	172.0	203.6	214.3	220.4	204.3	206.6
80°	920.5	737.0	303.0	190.4	172.0	142.6	172.7	186.6	195.1	173.5	165.7
82.5°	310.7	283.7	182.7	147.2	141.1	108.7	139.5	155.7	158.0	144.1	122.5
85°	185.1	185.8	128.0	113.3	104.0	67.8	100.2	122.5	122.5	101.8	83.3
87.5°	106.4	119.5	97.9	86.3	77.8	46.2	74.8	84.0	82.4	64.8	46.2
90°	53.2	62.4	57.8	57.1	58.6	29.3	58.6	63.2	63.2	44.7	28.5
92.5°	39.3	47.8	51.7	48.6	49.3	22.4	47.1	47.8	47.1	34.7	22.4
95°	33.1	41.6	51.7	48.6	47.1	18.5	43.2	44.0	44.7	34.0	24.7
97.5°	26.2	31.6	40.1	39.3	42.4	15.4	39.3	39.3	37.7	27.7	20.8
100°	23.9	27.7	34.0	34.0	37.0	13.9	34.7	31.6	30.1	22.4	19.2
102.5°	20.0	22.4	26.2	25.5	27.7	13.1	25.5	24.7	23.1	19.2	18.5
105°	19.2	20.0	20.0	18.5	19.2	12.4	17.7	17.0	16.2	16.2	17.0
107.5°	18.5	18.5	17.0	15.4	15.4	11.6	13.1	12.4	13.1	17.0	17.7



REPORT NUMBER: P241130

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.5	18.5	15.4	13.9	12.4	10.8	11.6	10.0	11.6	17.0	18.5
112.5°	18.5	18.5	13.9	11.6	11.6	10.0	10.0	9.2	10.8	17.0	18.5
115°	17.7	17.7	13.1	10.8	10.0	9.2	9.2	8.5	10.8	17.0	18.5
117.5°	17.7	17.7	13.1	10.8	9.2	8.5	8.5	7.7	10.8	17.7	18.5
120°	17.7	17.7	13.1	10.0	9.2	8.5	7.7	7.7	10.8	17.0	18.5
122.5°	17.0	16.2	12.4	9.2	8.5	7.7	7.7	7.7	10.8	17.7	18.5
125°	16.2	15.4	12.4	9.2	7.7	7.7	7.0	7.0	10.8	17.0	17.7
127.5°	15.4	15.4	11.6	8.5	7.7	7.0	7.0	7.0	10.8	17.7	17.7
130°	14.6	13.9	10.8	7.7	7.0	6.1	6.1	7.0	11.6	16.2	17.0
132.5°	13.1	12.4	10.0	7.0	6.1	6.1	6.1	6.1	10.8	16.2	16.2
135°	10.8	10.8	8.5	6.1	5.4	5.4	5.4	6.1	10.0	13.9	14.6
137.5°	10.0	9.2	7.7	6.1	4.6	5.4	5.4	6.1	10.0	13.1	13.9
140°	8.5	7.7	6.1	4.6	4.6	4.6	4.6	5.4	8.5	11.6	12.4
142.5°	6.1	6.1	5.4	3.9	3.9	3.9	3.9	5.4	7.7	10.0	10.0
145°	5.4	5.4	4.6	3.9	3.1	2.4	2.4	3.9	6.1	8.5	8.5
147.5°	3.9	3.9	3.9	3.1	2.4	2.4	2.4	3.1	4.6	6.1	6.1
150°	3.1	3.1	3.1	2.4	2.4	1.5	1.5	2.4	3.9	4.6	4.6
152.5°	2.4	2.4	2.4	2.4	1.5	1.5	1.5	1.5	2.4	3.1	3.1
155°	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	1.5	1.5
157.5°	0.8	0.8	0.8	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0
160°	0.8	0.8	0.8	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	1.5	1.5	0.8	0.8	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)