

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: P241013

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241013  
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-AF24-60-D-U-T4W-CL-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 800mA 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: 5925 lumens  
Efficiency: N/A  
Efficacy: 92.6 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 - U2 - G2

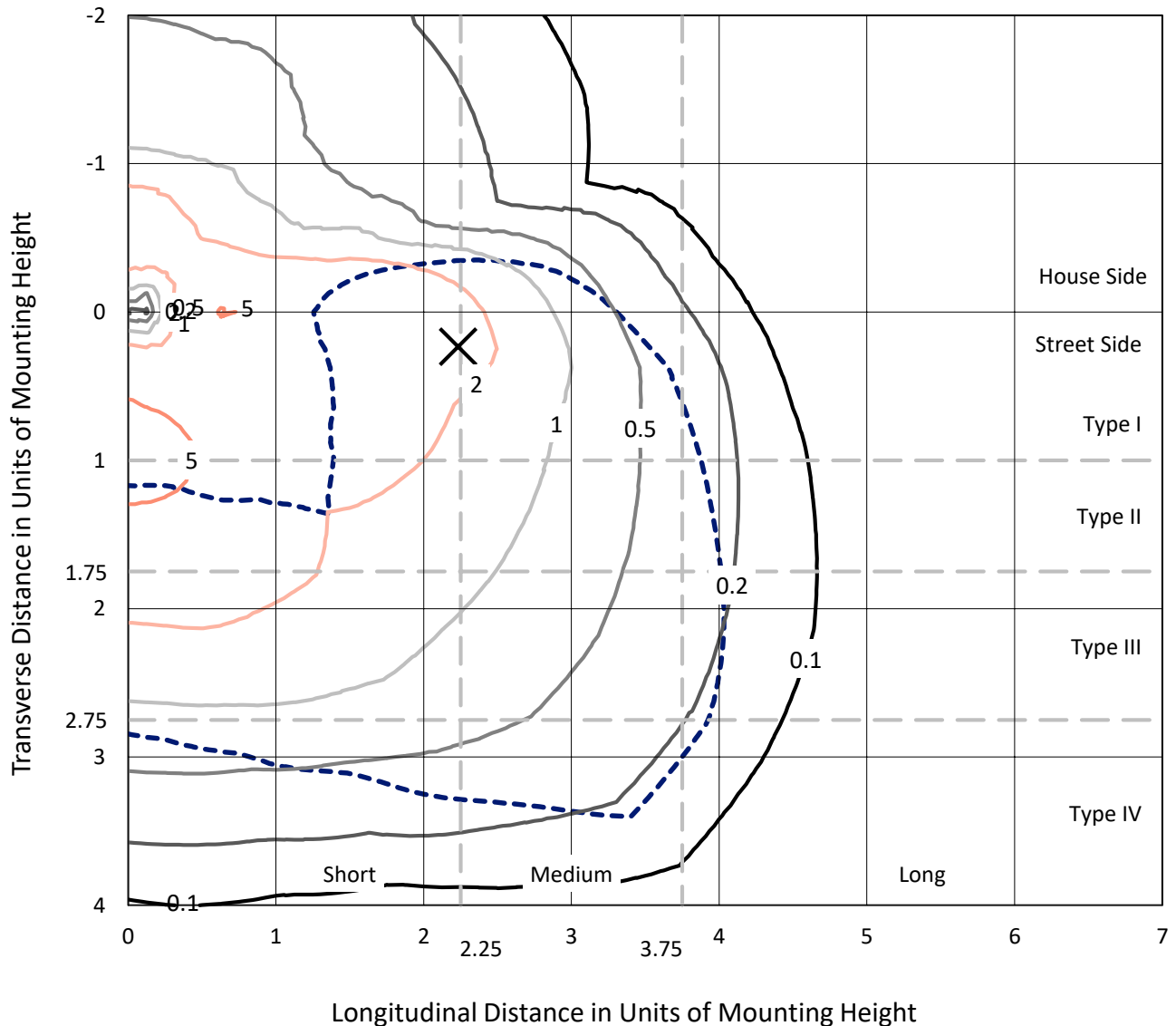
Input Watts (W): 64  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P241013  
 CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

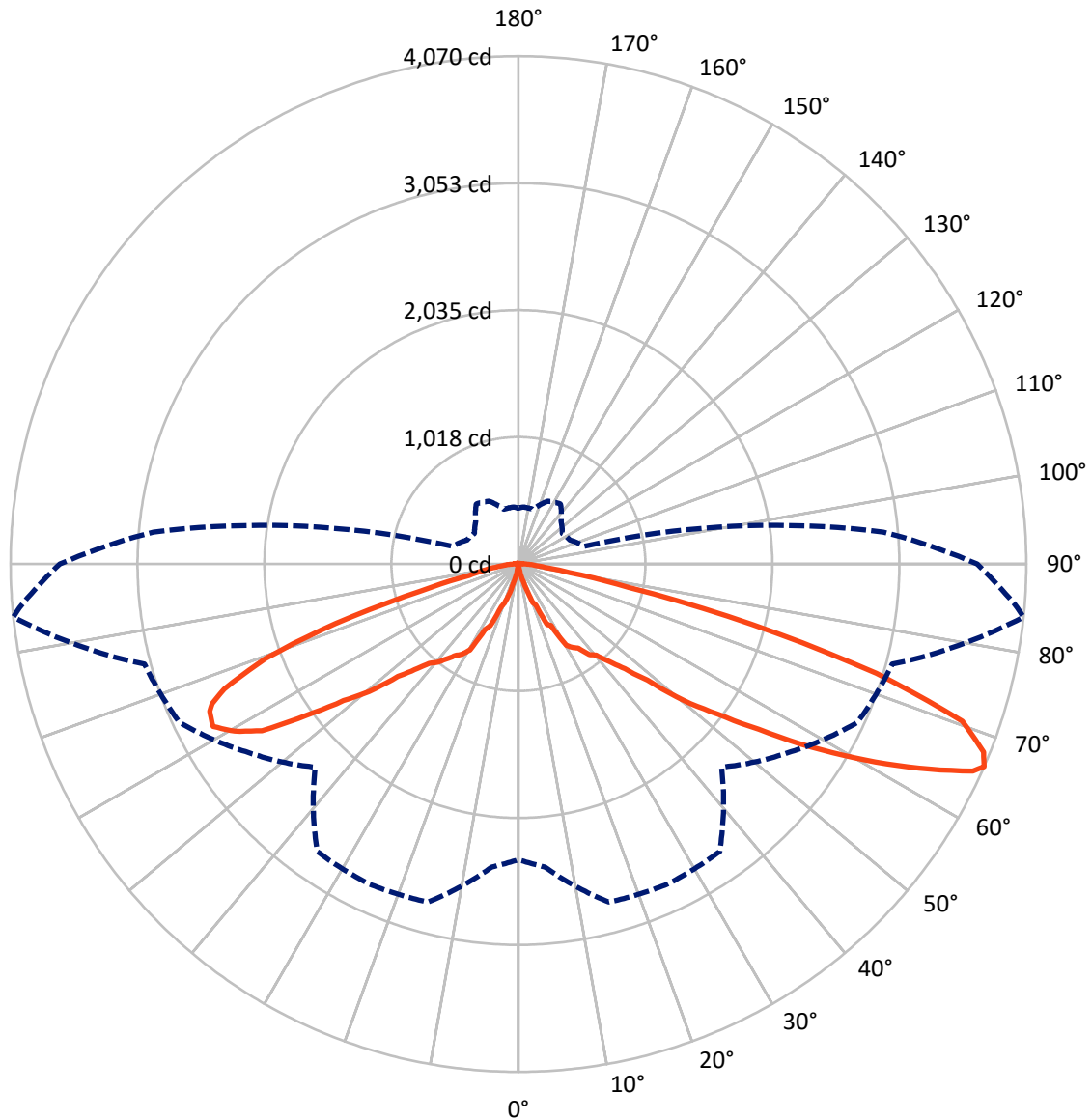


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P241013

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL-7030

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P241013

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL-7030

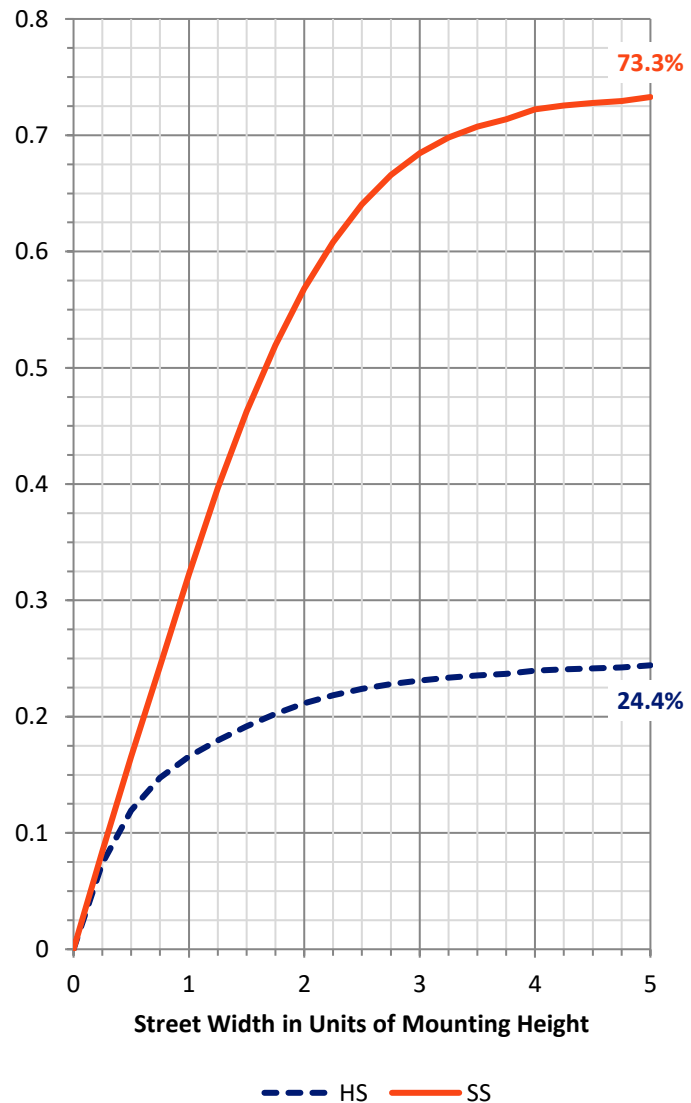
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1482.7	36.0	1518.7
	% Fixture	25.0	0.6	25.6
<b>Street Side</b>	Lumens	4372.5	33.9	4406.3
	% Fixture	73.8	0.6	74.4
<b>Total</b>	Lumens	5855.1	69.9	5925.0
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	55.0	0.9
20°-30°	203.2	3.4
30°-40°	417.9	7.1
40°-50°	693.3	11.7
50°-60°	1208.9	20.4
60°-70°	1780.9	30.1
70°-80°	1299.7	21.9
80°-90°	191.7	3.2
90°-100°	35.7	0.6
100°-110°	16.3	0.3
110°-120°	7.7	0.1
120°-130°	5.3	0.1
130°-140°	3.2	0.1
140°-150°	1.4	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5855.1	98.8
0°-180°	5925.0	100.0



REPORT NUMBER: P241013

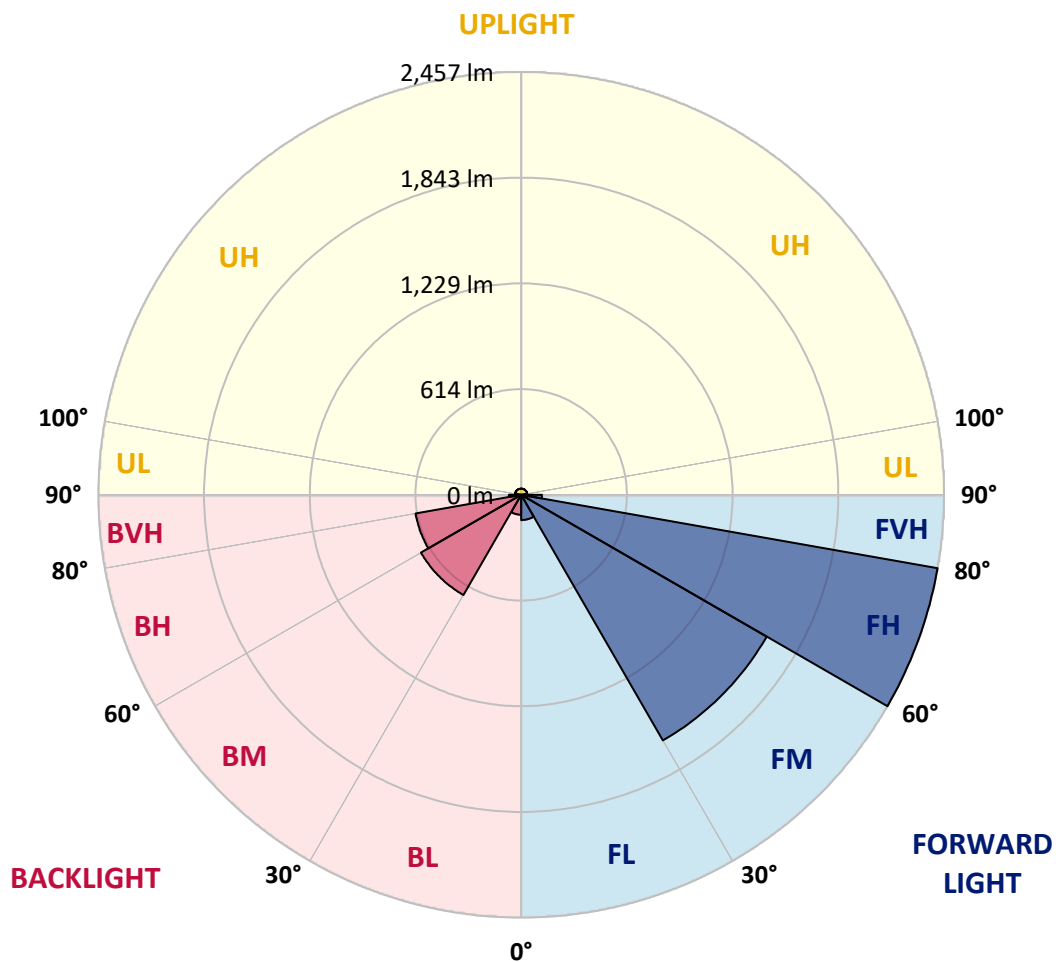
CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.6	2.5			
FM	(30°-60°)	1647.9	27.8			
FH	(60°-80°)	2457.4	41.5			G2/5000
FVH	(80°-90°)	120.6	2.0			G2/225
BL	(0°-30°)	116.0	2.0	B1/500		
BM	(30°-60°)	672.3	11.3	B1/1000		
BH	(60°-80°)	623.2	10.5	B2/1000		G2/1000
BVH	(80°-90°)	71.2	1.2			G1/100
UL	(90°-100°)	35.7	0.6		U2/50	
UH	(100°-180°)	36.0	0.6		U2/50	

**BUG Rating: B2-U2-G2**

Type IV Short





REPORT NUMBER: P241013

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	35.0	31.3	31.3	29.9	27.0	24.0	18.9	16.1	13.8	13.8	13.1
5°	67.0	70.7	81.6	75.1	62.0	80.9	36.5	24.0	15.3	13.1	13.1
7.5°	106.4	112.2	86.0	76.5	76.5	81.6	66.3	40.1	20.4	15.3	14.5
10°	223.0	210.7	146.5	148.7	126.0	88.2	60.5	53.2	31.3	24.8	22.6
12.5°	216.5	213.6	218.0	190.2	191.6	139.2	77.2	123.9	112.2	107.2	118.1
15°	279.1	276.2	221.6	225.9	204.9	212.8	179.3	178.5	172.7	145.1	139.2
17.5°	387.8	384.8	433.6	288.7	205.5	266.0	231.1	199.0	206.3	218.0	226.7
20°	387.0	382.6	403.0	346.3	350.6	274.8	246.4	362.3	330.9	332.3	313.5
22.5°	571.4	545.2	478.9	361.5	395.1	321.4	365.2	357.9	333.8	353.5	347.7
25°	554.7	564.9	542.3	535.1	402.3	460.6	401.6	413.3	510.2	536.5	537.2
27.5°	643.6	623.9	606.4	549.6	540.9	448.3	413.3	550.3	534.3	558.4	557.6
30°	767.5	761.0	756.6	610.8	585.3	494.2	556.9	561.9	648.7	758.0	780.6
32.5°	887.0	855.7	785.0	707.0	587.5	583.9	553.2	698.2	744.2	796.0	803.9
35°	1076.5	1075.8	956.2	755.8	657.4	620.3	716.5	752.2	751.4	829.5	876.8
37.5°	1238.4	1246.4	1121.0	912.6	680.0	626.8	747.9	811.2	814.2	919.9	901.6
40°	1484.8	1463.6	1351.3	1089.7	777.0	668.3	820.0	829.5	889.3	960.0	986.2
42.5°	1659.6	1651.7	1615.2	1296.7	889.3	744.9	905.2	864.5	941.7	1069.9	1097.7
45°	1769.0	1729.6	1765.3	1448.2	1069.2	908.9	924.3	978.9	1061.2	1196.8	1274.8
47.5°	1879.0	1909.0	1825.0	1562.7	1231.1	984.8	1016.7	1189.5	1268.9	1390.7	1440.2
50°	2070.0	2037.9	2008.7	1734.7	1480.4	1105.7	1271.9	1248.7	1471.6	1720.2	1728.9
52.5°	2186.6	2186.6	2139.3	1884.8	1652.3	1284.3	1357.2	1440.2	1772.6	1997.8	2079.5
55°	2352.2	2386.3	2377.6	2061.9	1855.0	1527.0	1580.2	1755.1	2048.2	2337.5	2539.4
57.5°	2469.5	2516.8	2619.6	2251.5	2051.8	1626.1	1906.0	2100.6	2418.5	2770.5	3014.7
60°	2643.6	2644.4	2750.0	2419.1	2300.4	1814.9	2032.1	2421.3	2621.7	3186.6	3315.7
62.5°	2661.1	2691.0	2912.7	2680.1	2548.2	2011.7	2444.6	2586.8	2850.7	3605.0	3718.0
65°	2449.7	2529.9	2901.0	2802.5	2774.8	2193.2	2565.6	2914.1	3036.6	4001.5	3969.5
66°	2368.8	2436.6	2804.6	2829.5	2812.0	2301.8	2636.3	2999.2	3101.4	4070.0	4013.9
67.5°	2340.5	2389.9	2689.5	2858.7	2938.1	2498.5	2809.0	3040.9	3220.2	4020.5	3997.9
70°	2142.9	2204.9	2486.2	3051.1	3207.1	2859.5	3031.4	3141.4	3304.0	3774.9	3677.2
72.5°	1634.2	1697.6	1905.3	2517.6	3229.7	3392.9	3376.1	3268.3	3031.4	2999.2	2842.6
75°	810.4	878.3	1024.9	1467.3	2513.2	3333.2	3356.5	2946.8	2449.7	1934.4	1814.1
77.5°	419.1	472.3	395.7	561.9	1292.3	2364.5	2375.4	1943.1	1419.9	903.8	844.0
80°	285.7	297.4	269.7	277.0	532.1	1208.5	1126.8	1034.2	571.4	414.7	433.0
82.5°	209.9	193.9	185.8	201.9	287.2	377.6	405.3	447.5	305.4	210.7	222.4
85°	99.1	109.4	107.2	123.1	175.0	129.0	198.3	269.0	203.3	135.6	133.4
87.5°	62.0	61.1	65.5	75.8	105.7	85.3	108.6	133.4	122.5	84.5	83.1
90°	40.9	36.5	34.3	40.9	59.0	42.3	58.4	75.8	69.3	45.9	43.0
92.5°	27.8	27.8	29.9	34.3	51.1	45.3	41.5	43.0	43.0	35.7	34.3
95°	20.4	21.9	24.8	25.4	30.6	26.2	33.6	37.1	37.9	29.2	28.4
97.5°	17.5	18.9	20.4	21.1	25.4	21.1	27.8	32.8	32.1	23.3	24.0
100°	16.1	17.5	17.5	18.2	20.4	16.1	22.6	30.6	29.2	20.4	19.6
102.5°	15.3	15.3	14.5	14.5	16.1	12.3	18.9	27.0	21.9	16.7	15.3
105°	14.5	14.5	12.3	11.7	12.3	10.2	15.3	20.4	15.3	13.8	13.8
107.5°	13.8	13.1	10.9	9.5	10.2	7.9	12.3	13.1	10.9	12.3	13.1



REPORT NUMBER: P241013

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL-7030

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	12.3	12.3	9.5	7.9	7.9	6.5	8.7	9.5	9.5	12.3	13.1
112.5°	11.7	10.9	7.9	6.5	6.5	5.8	6.5	7.3	7.9	11.7	12.3
115°	10.9	10.2	7.3	5.8	5.1	4.4	5.1	5.8	7.3	11.7	11.7
117.5°	10.2	9.5	6.5	5.1	4.4	3.6	4.4	5.1	7.3	11.7	11.7
120°	10.2	9.5	6.5	4.4	3.6	3.6	3.6	4.4	7.9	11.7	12.3
122.5°	9.5	9.5	6.5	4.4	3.6	2.9	2.9	4.4	7.3	10.9	10.9
125°	9.5	9.5	5.8	3.6	2.9	2.9	2.9	3.6	7.3	10.2	10.9
127.5°	8.7	8.7	5.8	3.6	2.9	2.1	2.1	3.6	6.5	10.2	10.2
130°	8.7	8.7	5.8	2.9	2.1	2.1	2.1	2.9	6.5	9.5	9.5
132.5°	7.3	7.3	5.1	2.9	2.1	1.4	2.1	2.9	5.8	7.9	8.7
135°	7.3	7.3	5.1	2.9	2.1	1.4	1.4	2.9	5.1	7.3	7.3
137.5°	6.5	6.5	4.4	2.9	2.1	1.4	1.4	2.1	4.4	6.5	6.5
140°	5.8	5.8	5.1	2.9	2.1	1.4	1.4	1.4	3.6	5.1	5.1
142.5°	5.8	5.8	4.4	2.9	1.4	0.8	0.8	1.4	2.9	3.6	3.6
145°	5.1	5.1	4.4	2.9	1.4	0.8	0.8	1.4	2.1	2.9	2.9
147.5°	5.1	5.1	4.4	2.1	0.8	0.8	0.8	1.4	2.1	2.9	2.9
150°	4.4	4.4	2.9	1.4	0.0	0.0	0.8	0.8	1.4	2.1	2.1
152.5°	2.9	2.9	2.1	0.8	0.0	0.0	0.0	0.8	1.4	1.4	1.4
155°	1.4	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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: P241013

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	13.1	13.1	13.1	13.1	13.1	13.1	12.3	12.3	12.3	12.3	12.3
5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	13.1	13.8	13.8	13.8
7.5°	13.8	13.8	13.1	12.3	13.1	14.5	21.9	50.3	73.6	90.3	89.7
10°	22.6	22.6	21.1	18.2	22.6	49.6	97.7	98.5	81.6	75.1	78.0
12.5°	119.5	106.4	90.3	74.3	72.8	88.2	83.1	116.0	129.7	139.2	137.7
15°	137.0	145.1	132.6	148.7	152.3	90.3	141.4	189.4	204.1	209.9	216.5
17.5°	225.9	249.9	178.5	169.2	169.8	180.8	190.9	200.5	204.9	202.6	203.3
20°	340.4	324.4	348.4	297.4	227.4	242.0	221.6	218.6	288.7	350.6	342.5
22.5°	347.7	375.5	343.3	314.1	347.7	246.4	305.4	324.4	333.8	341.9	352.1
25°	562.6	549.6	481.1	360.8	343.3	328.8	331.6	338.9	357.2	384.8	401.6
27.5°	597.6	594.8	532.1	486.2	365.9	411.1	340.4	409.6	442.4	471.6	477.5
30°	803.9	812.1	612.3	467.2	424.3	352.1	395.1	422.1	447.5	488.4	489.1
32.5°	854.3	871.1	677.1	516.8	444.5	364.5	397.2	417.7	514.6	552.6	554.0
35°	867.4	910.3	698.2	498.6	429.3	363.0	366.7	436.6	484.7	561.9	589.7
37.5°	1005.0	973.8	742.0	505.1	401.6	349.1	395.7	419.1	495.0	544.4	554.0
40°	1063.4	1045.9	770.4	518.2	396.5	388.5	366.7	390.7	426.4	462.0	462.0
42.5°	1172.1	1103.5	786.4	508.7	385.5	417.0	334.6	361.5	395.1	373.8	382.6
45°	1316.3	1224.5	841.1	458.5	365.2	354.2	321.4	363.0	341.9	341.9	337.5
47.5°	1503.0	1377.5	822.9	441.0	411.1	335.3	424.3	341.1	314.8	326.5	327.2
50°	1798.2	1649.5	879.0	429.3	389.9	328.8	363.0	329.4	329.4	337.5	334.6
52.5°	2168.4	1875.4	903.0	428.7	368.9	382.6	360.1	394.3	341.1	369.6	365.9
55°	2569.3	2215.8	927.8	422.8	365.2	345.5	440.2	377.6	354.2	406.0	407.4
57.5°	3077.3	2610.1	1029.9	411.1	366.7	346.3	415.5	422.8	431.5	465.8	470.9
60°	3393.7	2828.7	939.5	433.0	363.0	395.1	483.3	472.3	445.3	572.2	591.1
62.5°	3634.9	2994.2	774.1	451.1	429.3	397.9	499.4	551.0	526.3	577.2	591.8
65°	3678.6	2979.6	591.8	451.1	423.5	463.6	599.2	549.6	468.7	473.7	467.9
66°	3675.7	2935.1	545.2	454.8	429.3	483.3	588.3	556.1	453.3	458.5	447.5
67.5°	3555.6	2794.6	473.7	449.7	470.2	496.4	578.0	519.0	435.8	437.4	426.4
70°	3092.6	2357.2	403.0	462.0	487.7	497.7	631.9	483.3	400.1	389.9	387.8
72.5°	2274.8	1672.0	377.6	459.9	495.0	482.5	532.8	397.2	345.5	325.0	322.9
75°	1279.2	854.3	376.1	441.0	438.0	414.0	403.0	306.2	285.7	261.6	257.3
77.5°	589.7	411.8	318.5	355.0	330.9	327.2	300.3	255.1	243.4	227.4	220.8
80°	341.1	290.8	226.7	235.5	237.6	231.1	242.7	229.6	217.2	205.5	194.6
82.5°	199.0	184.4	165.4	155.2	155.2	166.2	199.7	190.9	181.5	171.3	147.3
85°	124.7	119.5	113.0	108.6	108.6	99.9	143.5	159.6	150.9	129.0	115.2
87.5°	81.6	85.3	75.8	76.5	74.3	66.3	96.9	107.2	91.9	73.6	61.1
90°	37.1	40.9	44.5	43.7	47.4	36.5	53.2	54.6	48.8	33.6	24.0
92.5°	28.4	33.6	37.1	37.1	40.9	24.8	38.7	43.0	40.1	31.3	22.6
95°	24.0	29.9	35.7	35.0	35.0	19.6	35.7	40.1	37.9	27.0	19.6
97.5°	19.6	24.0	29.2	29.2	32.1	16.7	32.8	38.7	36.5	27.0	18.9
100°	18.2	21.9	25.4	26.2	29.2	13.1	29.9	36.5	32.8	22.6	18.2
102.5°	16.7	18.2	21.1	21.1	21.9	11.7	24.0	29.9	26.2	17.5	17.5
105°	15.3	15.3	15.3	13.8	13.8	9.5	14.5	20.4	16.1	13.8	15.3
107.5°	14.5	13.8	11.7	10.9	10.2	7.9	10.2	12.3	9.5	12.3	13.8



REPORT NUMBER: P241013

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	13.8	13.8	10.9	9.5	8.7	7.3	8.7	7.9	7.9	12.3	13.1
112.5°	13.8	13.1	9.5	7.9	7.3	6.5	7.3	5.8	7.3	12.3	13.1
115°	13.1	13.1	8.7	7.3	7.3	5.8	5.8	5.1	6.5	11.7	13.1
117.5°	13.1	13.1	8.7	6.5	5.8	5.1	5.1	5.1	6.5	11.7	13.1
120°	13.1	12.3	8.7	6.5	5.1	4.4	4.4	4.4	6.5	11.7	12.3
122.5°	12.3	11.7	7.9	5.8	5.1	4.4	3.6	4.4	6.5	10.9	11.7
125°	11.7	11.7	7.9	5.1	4.4	3.6	2.9	3.6	6.5	10.9	11.7
127.5°	11.7	10.9	7.3	4.4	3.6	3.6	2.9	3.6	6.5	10.2	10.9
130°	10.2	10.2	6.5	4.4	2.9	2.9	2.1	2.9	6.5	10.2	10.2
132.5°	9.5	8.7	5.8	3.6	2.9	2.1	2.1	2.1	5.8	8.7	9.5
135°	7.9	7.3	5.1	2.9	2.1	2.1	1.4	2.1	5.1	7.9	7.9
137.5°	6.5	6.5	5.1	2.9	2.1	1.4	1.4	2.1	5.1	7.3	7.9
140°	5.8	5.1	3.6	2.1	1.4	1.4	1.4	2.1	4.4	5.8	6.5
142.5°	4.4	4.4	2.9	2.1	1.4	1.4	0.8	1.4	3.6	5.1	5.1
145°	3.6	3.6	2.9	1.4	1.4	0.8	0.8	0.8	2.9	3.6	4.4
147.5°	2.9	2.9	2.1	1.4	0.8	0.8	0.0	0.8	2.1	2.9	2.9
150°	2.1	2.1	2.1	1.4	0.8	0.0	0.0	0.0	0.8	1.4	1.4
152.5°	1.4	1.4	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	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)