

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: P239339

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T2U-7030-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3953 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

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

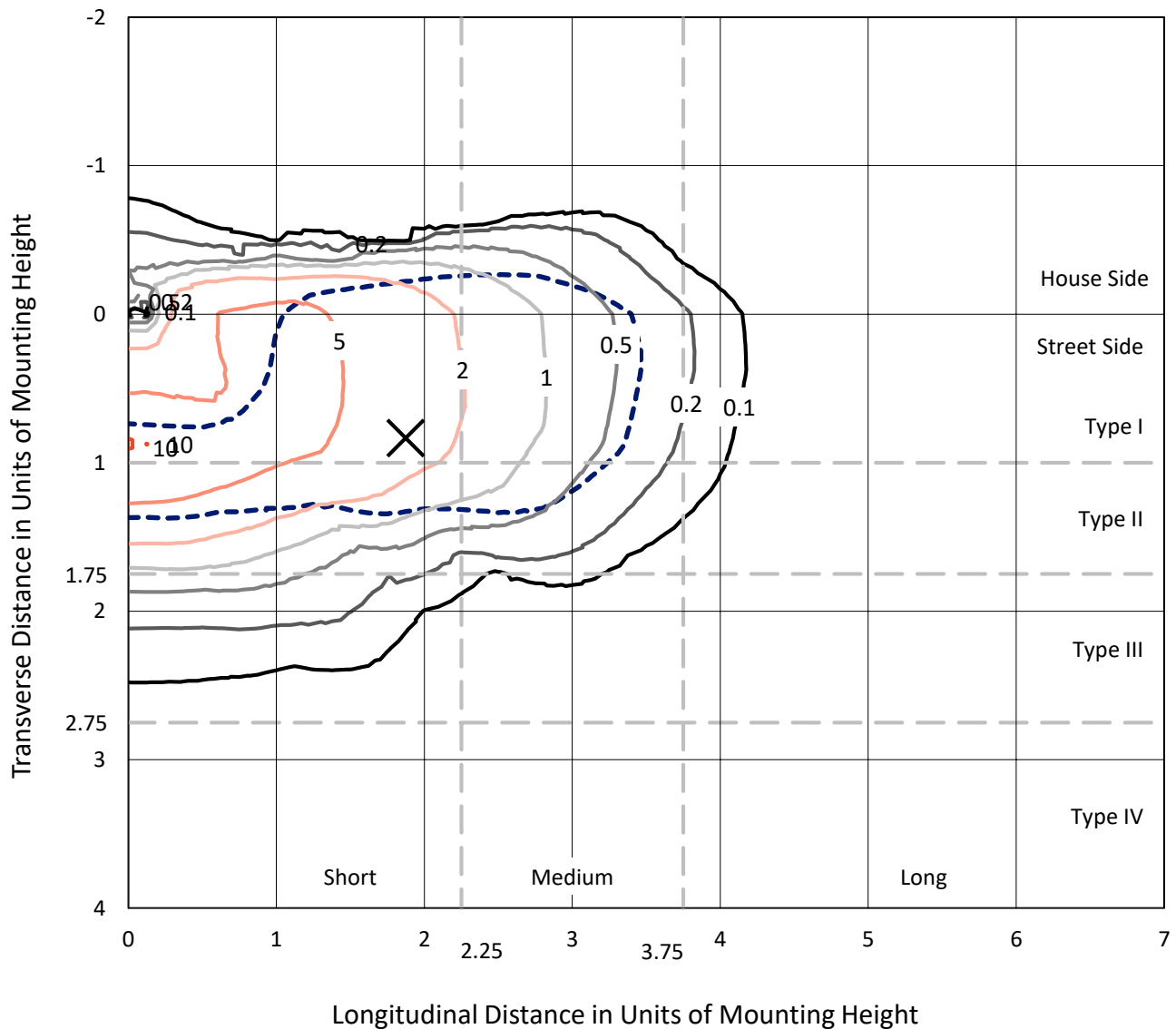


REPORT NUMBER: P239339

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

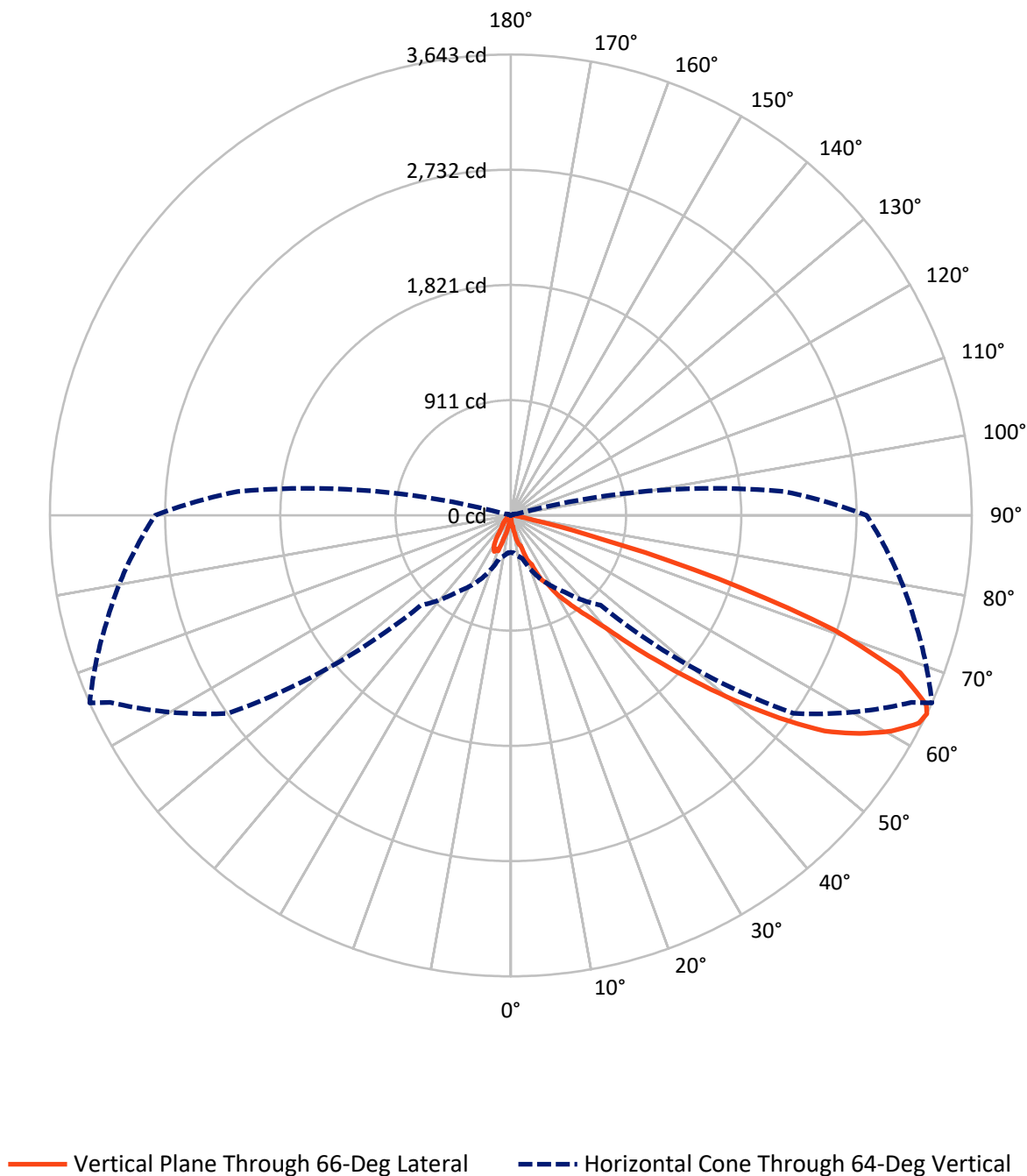


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Short - Full Cutoff

REPORT NUMBER: P239339

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-7030-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P239339

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-7030-HSS

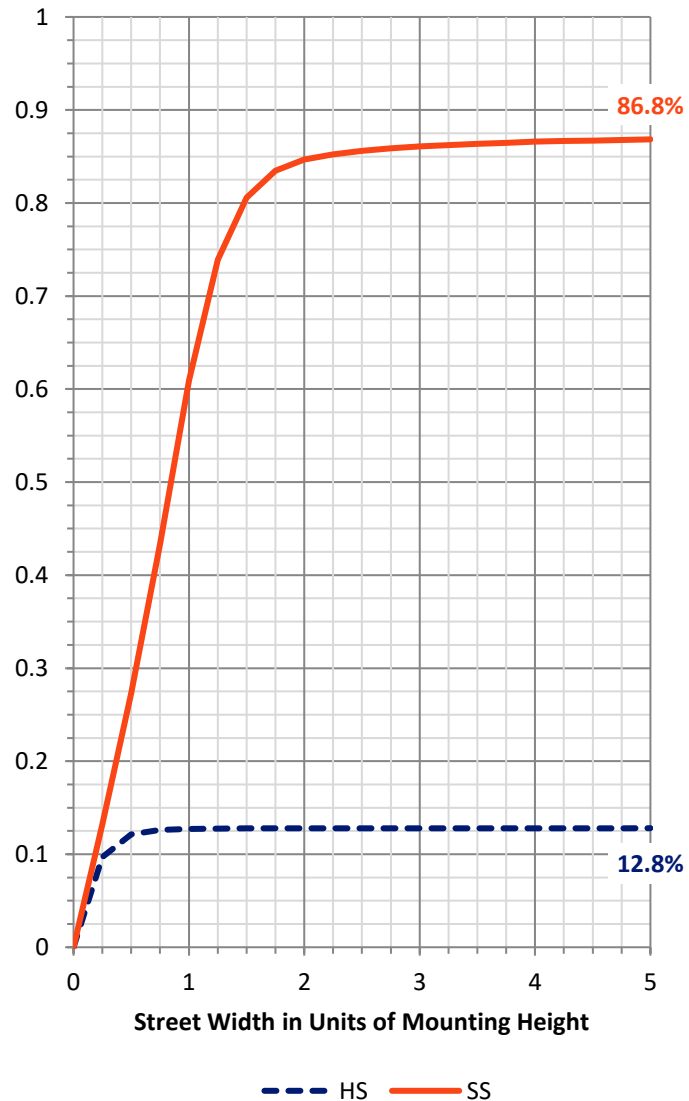
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.2	0.0	512.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3440.8	0.0	3440.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	3953.0	0.0	3953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.1
10°-20°	51.6	1.3
20°-30°	160.4	4.1
30°-40°	402.6	10.2
40°-50°	873.3	22.1
50°-60°	1182.5	29.9
60°-70°	929.5	23.5
70°-80°	328.7	8.3
80°-90°	19.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3953.0	100.0
0°-180°	3953.0	100.0

Coefficient of Utilization



REPORT NUMBER: P239339

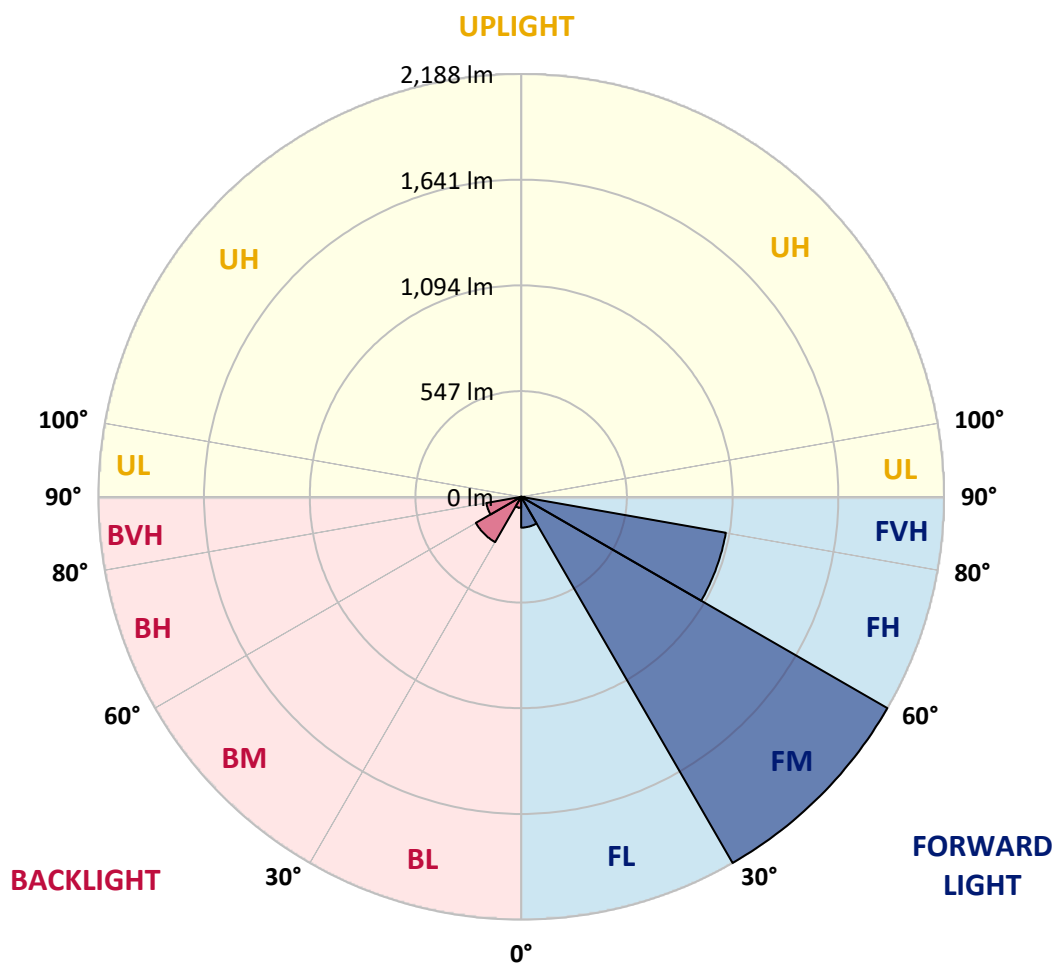
CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.3	4.0			
FM	(30°-60°)	2187.9	55.3			
FH	(60°-80°)	1075.2	27.2			G1/1800
FVH	(80°-90°)	18.4	0.5			G1/100
BL	(0°-30°)	57.2	1.4	B0/110		
BM	(30°-60°)	270.6	6.8	B1/1000		
BH	(60°-80°)	183.1	4.6	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P239339

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	14.7	14.0	12.0	9.3	3.3	2.0	0.0	0.0	0.0	0.0	0.0
5°	118.8	119.5	120.2	120.2	120.2	119.5	45.4	3.3	2.7	0.0	0.0
7.5°	115.5	116.2	116.2	116.2	116.8	116.8	116.8	112.8	92.8	2.0	0.0
10°	218.3	219.0	220.3	160.2	119.5	114.8	114.8	93.5	90.1	12.0	4.7
12.5°	215.0	215.6	217.0	217.6	219.0	145.5	121.5	166.9	178.2	231.6	151.5
15°	248.3	259.7	234.3	219.6	219.6	206.3	244.3	236.3	237.0	241.0	155.5
17.5°	325.1	324.4	327.1	329.8	241.0	302.4	317.1	247.7	250.3	281.0	285.7
20°	336.4	337.8	334.4	339.8	398.5	317.8	317.1	377.8	375.2	375.8	338.4
22.5°	457.9	459.3	464.0	385.2	416.6	393.2	413.9	421.9	421.9	395.2	398.5
25°	492.7	490.0	494.7	487.3	490.7	475.3	447.3	538.7	564.1	539.4	536.7
27.5°	684.2	678.2	664.2	543.4	534.0	504.7	589.5	604.1	604.8	600.1	622.2
30°	810.4	812.4	773.7	708.3	594.1	581.4	651.5	705.6	724.3	785.7	767.0
32.5°	1208.9	1184.2	1074.1	841.1	733.6	684.2	725.0	829.1	816.4	857.1	857.1
35°	1580.8	1537.4	1369.8	1133.5	858.5	762.3	861.1	893.2	917.9	952.6	964.6
37.5°	1951.9	1934.6	1759.7	1438.6	1106.1	891.2	972.0	1033.4	1030.7	1076.1	1099.5
40°	2281.7	2259.7	2144.2	1819.8	1401.2	1086.1	1128.2	1188.9	1184.2	1270.4	1302.4
42.5°	2527.4	2512.7	2437.2	2108.8	1765.7	1417.2	1361.8	1387.8	1404.5	1496.7	1529.4
45°	2661.5	2635.5	2613.5	2338.4	2082.8	1814.4	1670.9	1639.5	1659.5	1750.3	1773.0
47.5°	2632.8	2600.8	2632.2	2475.3	2361.8	2161.5	2078.1	1973.3	1958.6	2075.4	2032.7
50°	2408.5	2388.5	2486.0	2475.3	2522.0	2449.3	2538.7	2324.4	2301.1	2366.5	2291.7
52.5°	2011.3	2011.3	2162.2	2261.0	2519.3	2655.5	2940.6	2698.9	2660.9	2648.9	2488.6
55°	1602.8	1613.5	1755.0	1897.9	2299.7	2710.9	3276.4	3042.7	3009.3	2850.5	2636.8
57.5°	1159.5	1171.6	1373.8	1493.3	1885.8	2521.4	3404.5	3265.0	3251.7	3012.0	2773.7
60°	679.6	708.3	922.6	1123.5	1361.8	2030.0	3353.8	3417.9	3460.6	3142.2	2873.8
62.5°	400.5	412.5	487.3	761.7	941.3	1381.2	3076.1	3494.0	3618.1	3252.3	2951.9
64°	292.4	298.4	351.8	551.4	737.0	1003.3	2727.0	3494.0	3642.8	3311.7	2973.3
65°	239.0	241.7	279.0	441.3	623.5	767.7	2399.2	3464.6	3610.1	3341.1	2968.6
67.5°	194.3	196.3	205.6	252.3	429.2	421.9	1418.6	3204.9	3319.7	3373.2	2896.5
70°	174.9	176.9	192.9	196.9	317.1	281.0	457.3	2634.2	2711.6	3207.6	2743.0
72.5°	132.8	138.2	166.9	191.6	219.6	210.3	219.0	1624.2	1714.3	2442.6	2340.4
75°	90.8	96.1	124.2	162.9	169.6	158.2	164.9	623.5	698.3	1269.0	1411.9
77.5°	58.1	58.7	77.4	118.2	151.5	108.1	124.8	175.6	204.3	429.9	439.9
80°	38.1	39.4	46.7	75.4	103.5	90.1	76.8	94.8	96.1	126.8	67.4
82.5°	23.4	22.7	30.7	46.7	63.4	76.1	47.4	61.4	64.1	74.8	28.7
85°	10.0	10.7	19.4	30.0	39.4	36.7	29.4	37.4	38.7	49.4	16.7
87.5°	4.0	4.0	11.3	16.7	17.4	17.4	18.0	20.0	20.0	30.7	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P239339

CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	2.7	61.4	88.1	88.1
10°	4.7	4.0	0.0	0.7	0.7	30.7	98.1	98.1	96.1	94.8	94.1
12.5°	150.2	172.9	165.6	71.4	55.4	87.4	92.8	82.1	73.4	69.4	68.1
15°	179.6	178.9	174.2	141.5	198.3	88.8	70.8	85.4	73.4	63.4	63.4
17.5°	299.1	283.7	237.0	192.3	179.6	120.2	71.4	48.7	40.1	37.4	37.4
20°	355.8	349.1	305.1	296.4	164.2	98.8	50.1	33.4	38.1	42.7	42.7
22.5°	437.2	433.9	320.4	282.4	163.6	60.1	40.1	40.1	39.4	37.4	37.4
25°	525.4	528.7	451.9	299.1	111.5	50.1	41.4	34.7	30.7	33.4	34.0
27.5°	640.9	556.7	455.3	275.7	76.1	46.7	35.4	33.4	32.7	31.4	31.4
30°	771.7	753.7	582.8	229.6	58.1	42.1	33.4	29.4	26.0	27.4	27.4
32.5°	861.8	806.4	572.1	173.6	50.1	36.7	28.7	24.7	25.4	26.0	25.4
35°	952.6	889.8	576.8	111.5	44.7	30.0	23.4	22.0	21.4	24.0	24.0
37.5°	1081.4	1002.0	568.1	70.1	37.4	24.7	20.0	19.4	20.0	20.7	20.7
40°	1239.6	1148.9	547.4	52.7	30.7	20.0	16.7	16.0	17.4	17.4	17.4
42.5°	1429.2	1309.1	493.3	46.1	26.0	16.0	13.4	13.4	14.7	14.7	14.7
45°	1655.5	1504.7	424.6	40.7	22.0	13.4	10.7	11.3	12.0	12.0	12.0
47.5°	1904.5	1719.6	337.1	35.4	18.7	10.7	8.7	8.7	9.3	9.3	9.3
50°	2134.8	1897.2	265.7	31.4	15.4	8.7	6.7	6.7	6.7	6.7	6.7
52.5°	2304.4	2014.0	193.6	27.4	13.4	6.7	4.7	4.7	4.7	4.7	4.7
55°	2442.6	2091.4	140.2	23.4	10.7	5.3	3.3	2.7	3.3	2.7	2.7
57.5°	2564.1	2140.2	100.8	19.4	8.7	3.3	1.3	1.3	1.3	1.3	1.3
60°	2674.2	2166.2	74.8	16.0	7.3	2.0	1.3	0.7	0.7	0.0	0.0
62.5°	2774.4	2175.6	56.7	12.7	6.0	1.3	0.7	0.0	0.0	0.0	0.0
64°	2811.1	2166.9	48.7	11.3	5.3	0.7	0.7	0.0	0.0	0.0	0.0
65°	2822.4	2146.2	44.1	10.0	4.7	0.7	0.7	0.0	0.0	0.0	0.0
67.5°	2787.7	2052.1	32.7	8.0	4.0	0.7	0.7	0.0	0.0	0.0	0.0
70°	2652.2	1874.5	24.0	6.7	2.7	0.0	0.7	0.0	0.0	0.0	0.0
72.5°	2168.9	1415.2	17.4	5.3	2.7	0.0	0.7	0.0	0.0	0.0	0.0
75°	1302.4	596.8	12.7	4.0	2.7	0.0	1.3	0.0	0.0	0.0	0.0
77.5°	393.2	192.3	9.3	3.3	3.3	0.0	2.0	0.7	0.0	0.0	0.0
80°	52.7	28.7	5.3	2.7	3.3	0.0	2.7	0.7	0.0	0.0	0.0
82.5°	19.4	9.3	3.3	2.7	3.3	0.0	2.7	2.0	0.7	0.7	0.0
85°	7.3	5.3	2.7	2.0	4.0	0.0	3.3	2.0	0.7	0.7	0.0
87.5°	3.3	2.7	2.0	2.0	4.0	0.0	3.3	2.7	0.7	0.7	0.0
90°	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)