

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: P239352

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239352
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-AF24-100-D-U-T2U-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA 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: 5926 lumens
Efficiency: N/A
Efficacy: 61.7 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): 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

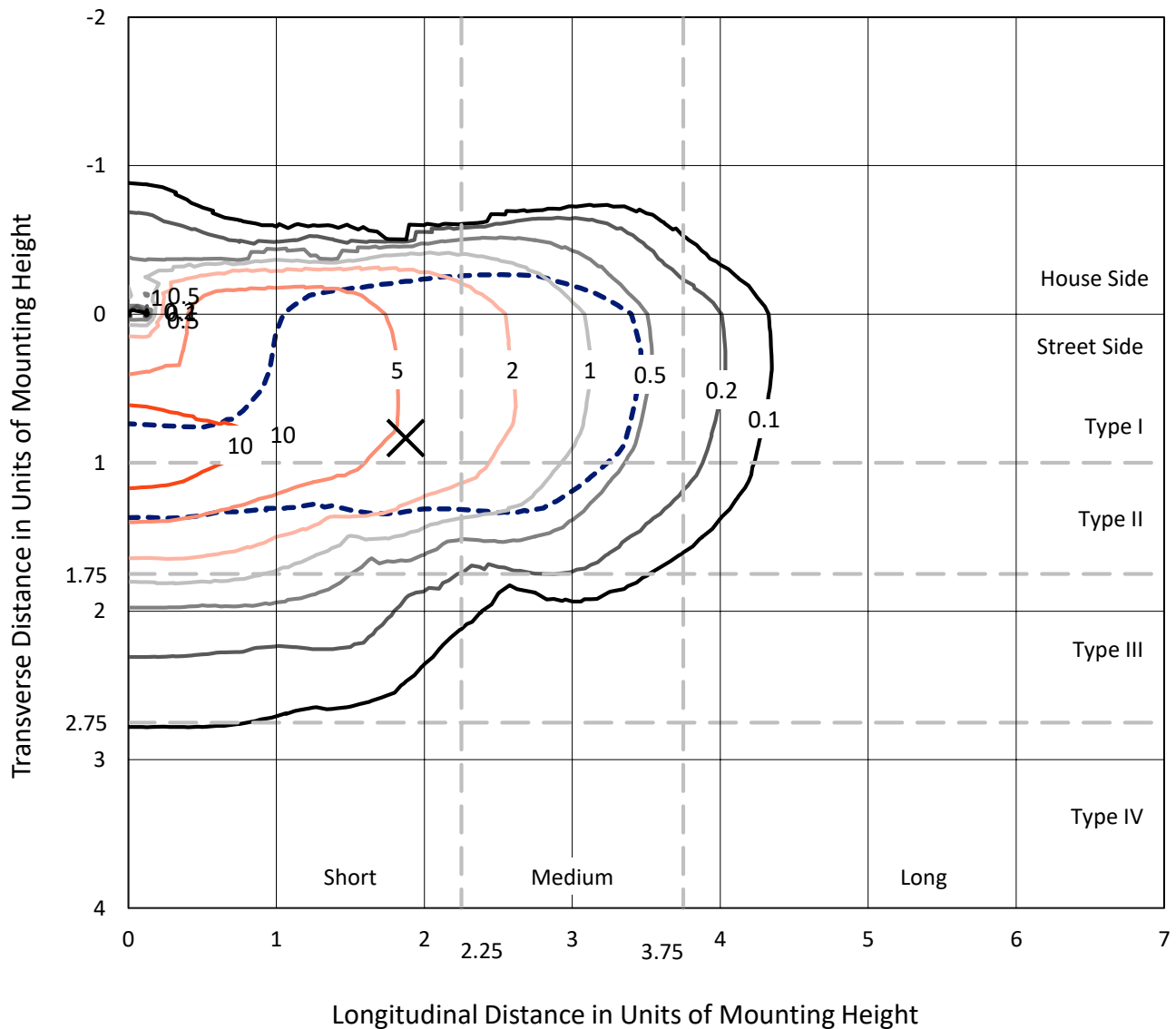


REPORT NUMBER: P239352

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

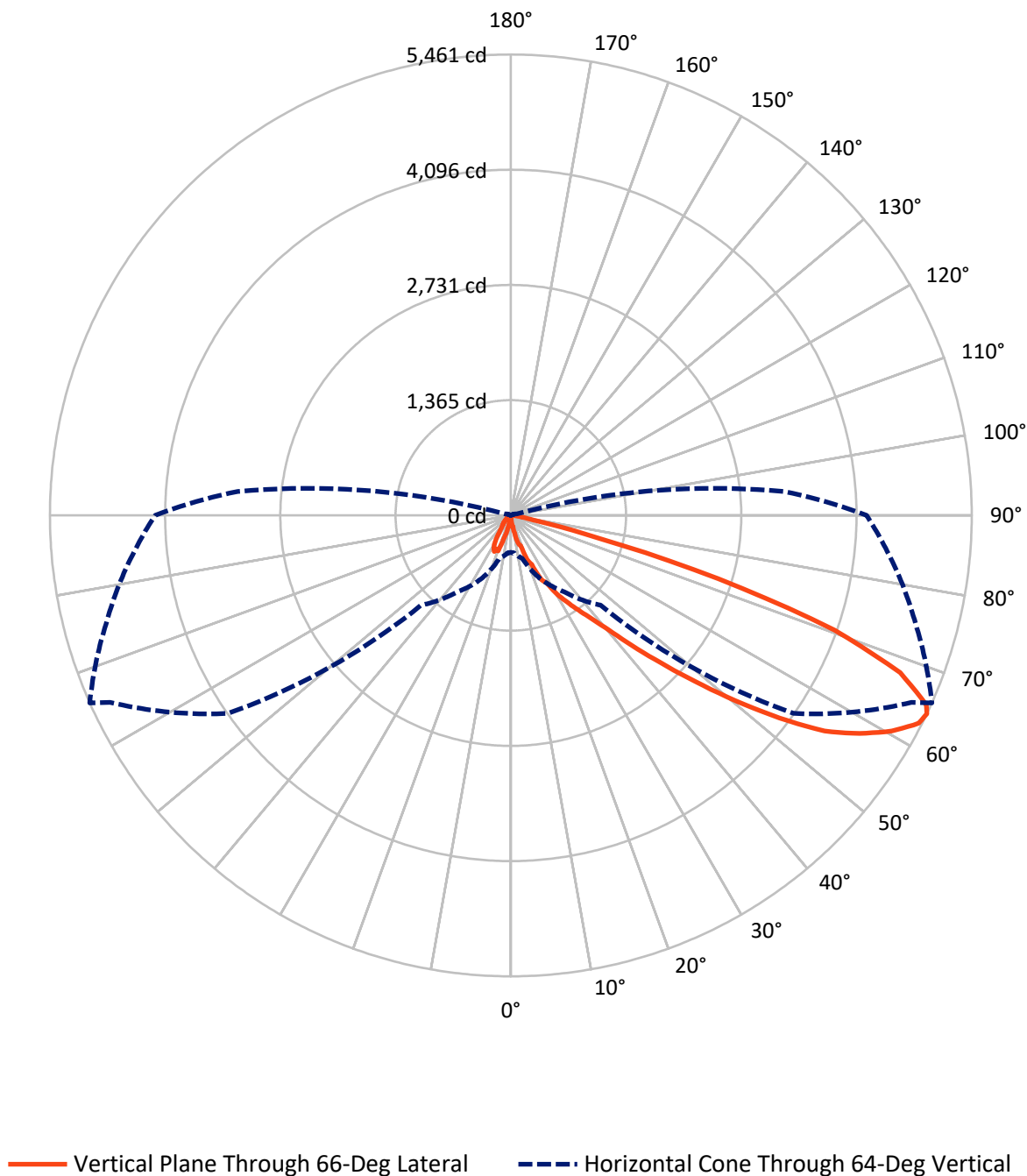


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Short - Full Cutoff

REPORT NUMBER: P239352

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P239352

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-HSS

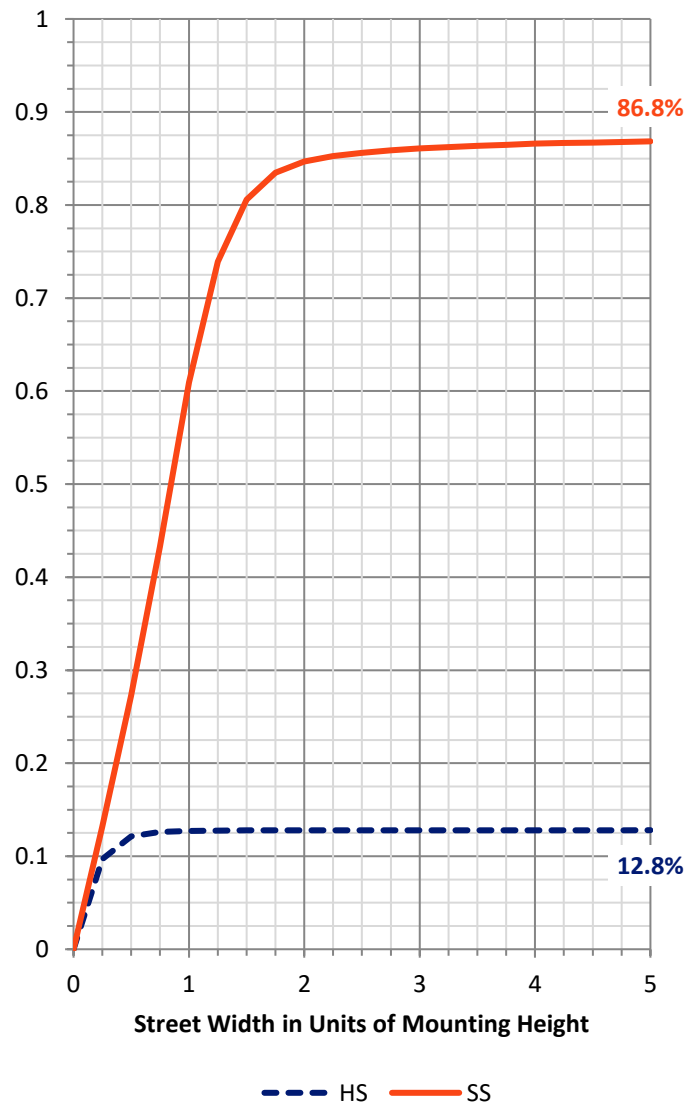
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	767.9	0.0	767.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	5158.1	0.0	5158.1
	% Fixture	87.0	0.0	87.0
Total	Lumens	5926.0	0.0	5926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.1
10°-20°	77.4	1.3
20°-30°	240.4	4.1
30°-40°	603.6	10.2
40°-50°	1309.2	22.1
50°-60°	1772.7	29.9
60°-70°	1393.5	23.5
70°-80°	492.8	8.3
80°-90°	29.7	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°	5926.0	100.0
0°-180°	5926.0	100.0

Coefficient of Utilization



REPORT NUMBER: P239352

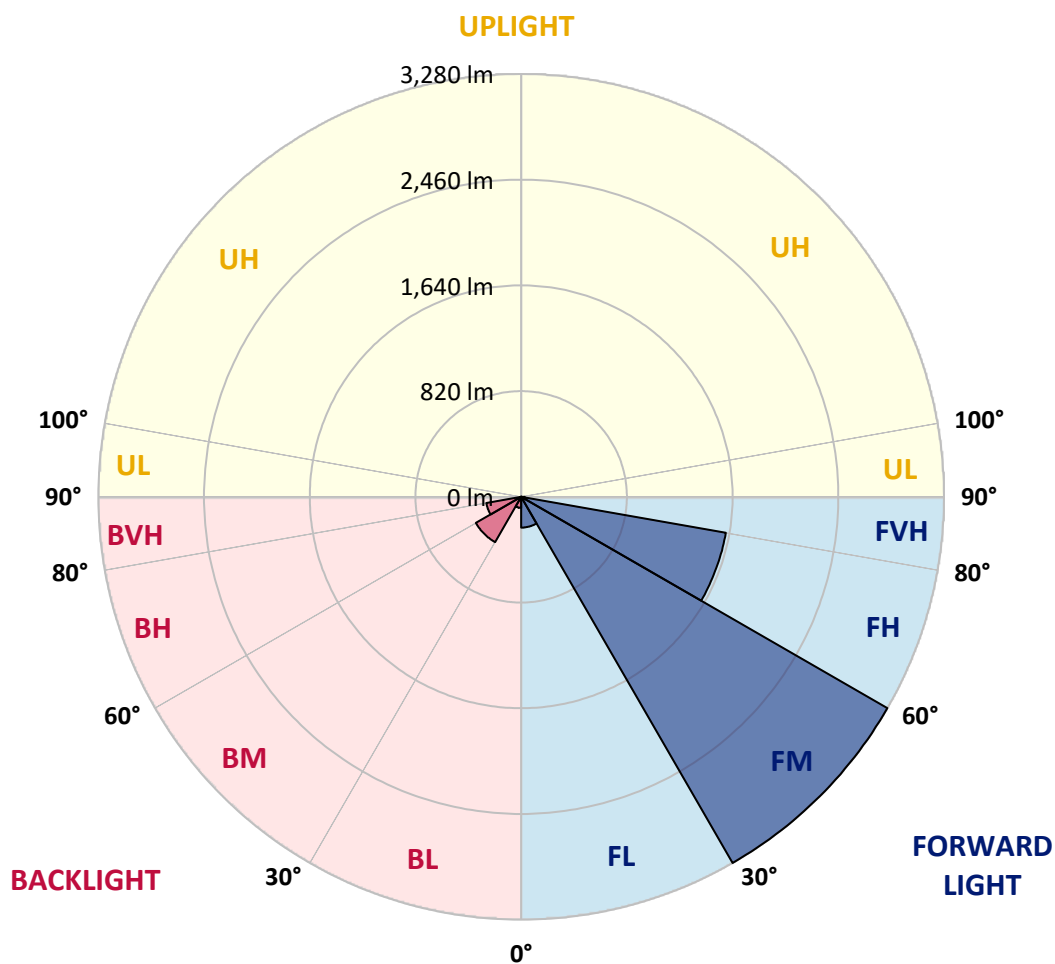
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.7	4.0			
FM	(30°-60°)	3279.9	55.3			
FH	(60°-80°)	1611.8	27.2			G1/1800
FVH	(80°-90°)	27.6	0.5			G1/100
BL	(0°-30°)	85.8	1.4	B0/110		
BM	(30°-60°)	405.6	6.8	B1/1000		
BH	(60°-80°)	274.4	4.6	B1/500		G1/500
BVH	(80°-90°)	2.1	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: P239352

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-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°	22.0	21.0	18.0	14.0	5.0	3.0	0.0	0.0	0.0	0.0	0.0
5°	178.1	179.1	180.1	180.1	180.1	179.1	68.1	5.0	4.0	0.0	0.0
7.5°	173.1	174.1	174.1	174.1	175.1	175.1	175.1	169.1	139.1	3.0	0.0
10°	327.2	328.2	330.2	240.2	179.1	172.1	172.1	140.1	135.1	18.0	7.0
12.5°	322.2	323.2	325.2	326.2	328.2	218.2	182.1	250.2	267.2	347.3	227.2
15°	372.3	389.3	351.3	329.2	329.2	309.2	366.3	354.3	355.3	361.3	233.2
17.5°	487.4	486.4	490.4	494.4	361.3	453.3	475.4	371.3	375.3	421.3	428.3
20°	504.4	506.4	501.4	509.4	597.4	476.4	475.4	566.4	562.4	563.4	507.4
22.5°	686.5	688.5	695.5	577.4	624.5	589.4	620.5	632.5	632.5	592.4	597.4
25°	738.5	734.5	741.5	730.5	735.5	712.5	670.5	807.6	845.6	808.6	804.6
27.5°	1025.8	1016.8	995.7	814.6	800.6	756.6	883.7	905.7	906.7	899.7	932.7
30°	1214.9	1217.9	1159.9	1061.8	890.7	871.6	976.7	1057.8	1085.8	1177.9	1149.9
32.5°	1812.3	1775.3	1610.2	1260.9	1099.8	1025.8	1086.8	1242.9	1223.9	1285.0	1285.0
35°	2369.8	2304.7	2053.5	1699.3	1287.0	1142.8	1291.0	1339.0	1376.0	1428.1	1446.1
37.5°	2926.2	2900.1	2638.0	2156.6	1658.2	1336.0	1457.1	1549.1	1545.1	1613.2	1648.2
40°	3420.5	3387.5	3214.4	2728.0	2100.6	1628.2	1691.3	1782.3	1775.3	1904.4	1952.4
42.5°	3788.8	3766.8	3653.7	3161.3	2647.0	2124.6	2041.5	2080.5	2105.6	2243.7	2292.7
45°	3990.0	3950.9	3917.9	3505.6	3122.3	2720.0	2504.9	2457.8	2487.8	2623.9	2658.0
47.5°	3946.9	3898.9	3945.9	3710.7	3540.6	3240.4	3115.3	2958.2	2936.2	3111.3	3047.3
50°	3610.7	3580.6	3726.8	3710.7	3780.8	3671.7	3805.8	3484.6	3449.6	3547.6	3435.5
52.5°	3015.2	3015.2	3241.4	3389.5	3776.8	3980.9	4408.3	4046.0	3989.0	3970.9	3730.8
55°	2402.8	2418.8	2630.9	2845.1	3447.5	4064.0	4911.6	4561.4	4511.3	4273.2	3952.9
57.5°	1738.3	1756.3	2059.5	2238.7	2827.1	3779.8	5103.8	4894.6	4874.6	4515.3	4158.1
60°	1018.8	1061.8	1383.0	1684.2	2041.5	3043.3	5027.7	5123.8	5187.8	4710.5	4308.2
62.5°	600.4	618.5	730.5	1141.8	1411.0	2070.5	4611.4	5237.9	5424.0	4875.6	4425.3
64°	438.3	447.3	527.4	826.6	1104.8	1504.1	4088.0	5237.9	5461.0	4964.7	4457.3
65°	358.3	362.3	418.3	661.5	934.7	1150.9	3596.7	5193.8	5412.0	5008.7	4450.3
67.5°	291.2	294.2	308.2	378.3	643.5	632.5	2126.6	4804.6	4976.7	5056.7	4342.2
70°	262.2	265.2	289.2	295.2	475.4	421.3	685.5	3948.9	4065.0	4808.6	4112.0
72.5°	199.1	207.2	250.2	287.2	329.2	315.2	328.2	2434.8	2569.9	3661.7	3508.6
75°	136.1	144.1	186.1	244.2	254.2	237.2	247.2	934.7	1046.8	1902.4	2116.6
77.5°	87.1	88.1	116.1	177.1	227.2	162.1	187.1	263.2	306.2	644.5	659.5
80°	57.0	59.0	70.1	113.1	155.1	135.1	115.1	142.1	144.1	190.1	101.1
82.5°	35.0	34.0	46.0	70.1	95.1	114.1	71.1	92.1	96.1	112.1	43.0
85°	15.0	16.0	29.0	45.0	59.0	55.0	44.0	56.0	58.0	74.1	25.0
87.5°	6.0	6.0	17.0	25.0	26.0	26.0	27.0	30.0	30.0	46.0	16.0
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: P239352

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-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	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	1.0	1.0	0.0	0.0	4.0	92.1	132.1	132.1
10°	7.0	6.0	0.0	1.0	1.0	46.0	147.1	147.1	144.1	142.1	141.1
12.5°	225.2	259.2	248.2	107.1	83.1	131.1	139.1	123.1	110.1	104.1	102.1
15°	269.2	268.2	261.2	212.2	297.2	133.1	106.1	128.1	110.1	95.1	95.1
17.5°	448.3	425.3	355.3	288.2	269.2	180.1	107.1	73.1	60.0	56.0	56.0
20°	533.4	523.4	457.3	444.3	246.2	148.1	75.1	50.0	57.0	64.0	64.0
22.5°	655.5	650.5	480.4	423.3	245.2	90.1	60.0	60.0	59.0	56.0	56.0
25°	787.6	792.6	677.5	448.3	167.1	75.1	62.0	52.0	46.0	50.0	51.0
27.5°	960.7	834.6	682.5	413.3	114.1	70.1	53.0	50.0	49.0	47.0	47.0
30°	1156.9	1129.8	873.6	344.3	87.1	63.0	50.0	44.0	39.0	41.0	41.0
32.5°	1292.0	1208.9	857.6	260.2	75.1	55.0	43.0	37.0	38.0	39.0	38.0
35°	1428.1	1334.0	864.6	167.1	67.0	45.0	35.0	33.0	32.0	36.0	36.0
37.5°	1621.2	1502.1	851.6	105.1	56.0	37.0	30.0	29.0	30.0	31.0	31.0
40°	1858.4	1722.3	820.6	79.1	46.0	30.0	25.0	24.0	26.0	26.0	26.0
42.5°	2142.6	1962.5	739.5	69.1	39.0	24.0	20.0	20.0	22.0	22.0	22.0
45°	2481.8	2255.7	636.5	61.0	33.0	20.0	16.0	17.0	18.0	18.0	18.0
47.5°	2855.1	2577.9	505.4	53.0	28.0	16.0	13.0	13.0	14.0	14.0	14.0
50°	3200.4	2844.1	398.3	47.0	23.0	13.0	10.0	10.0	10.0	10.0	10.0
52.5°	3454.6	3019.2	290.2	41.0	20.0	10.0	7.0	7.0	7.0	7.0	7.0
55°	3661.7	3135.3	210.2	35.0	16.0	8.0	5.0	4.0	5.0	4.0	4.0
57.5°	3843.8	3208.4	151.1	29.0	13.0	5.0	2.0	2.0	2.0	2.0	2.0
60°	4009.0	3247.4	112.1	24.0	11.0	3.0	2.0	1.0	1.0	0.0	0.0
62.5°	4159.1	3261.4	85.1	19.0	9.0	2.0	1.0	0.0	0.0	0.0	0.0
64°	4214.1	3248.4	73.1	17.0	8.0	1.0	1.0	0.0	0.0	0.0	0.0
65°	4231.1	3217.4	66.0	15.0	7.0	1.0	1.0	0.0	0.0	0.0	0.0
67.5°	4179.1	3076.3	49.0	12.0	6.0	1.0	1.0	0.0	0.0	0.0	0.0
70°	3975.9	2810.1	36.0	10.0	4.0	0.0	1.0	0.0	0.0	0.0	0.0
72.5°	3251.4	2121.6	26.0	8.0	4.0	0.0	1.0	0.0	0.0	0.0	0.0
75°	1952.4	894.7	19.0	6.0	4.0	0.0	2.0	0.0	0.0	0.0	0.0
77.5°	589.4	288.2	14.0	5.0	5.0	0.0	3.0	1.0	0.0	0.0	0.0
80°	79.1	43.0	8.0	4.0	5.0	0.0	4.0	1.0	0.0	0.0	0.0
82.5°	29.0	14.0	5.0	4.0	5.0	0.0	4.0	3.0	1.0	1.0	0.0
85°	11.0	8.0	4.0	3.0	6.0	0.0	5.0	3.0	1.0	1.0	0.0
87.5°	5.0	4.0	3.0	3.0	6.0	0.0	5.0	4.0	1.0	1.0	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)