

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: P241125

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241125
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-AF24-100-D-U-T2U-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 7855.7 lumens
Efficiency: N/A
Efficacy: 81.8 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: B3 - U3 - G3

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

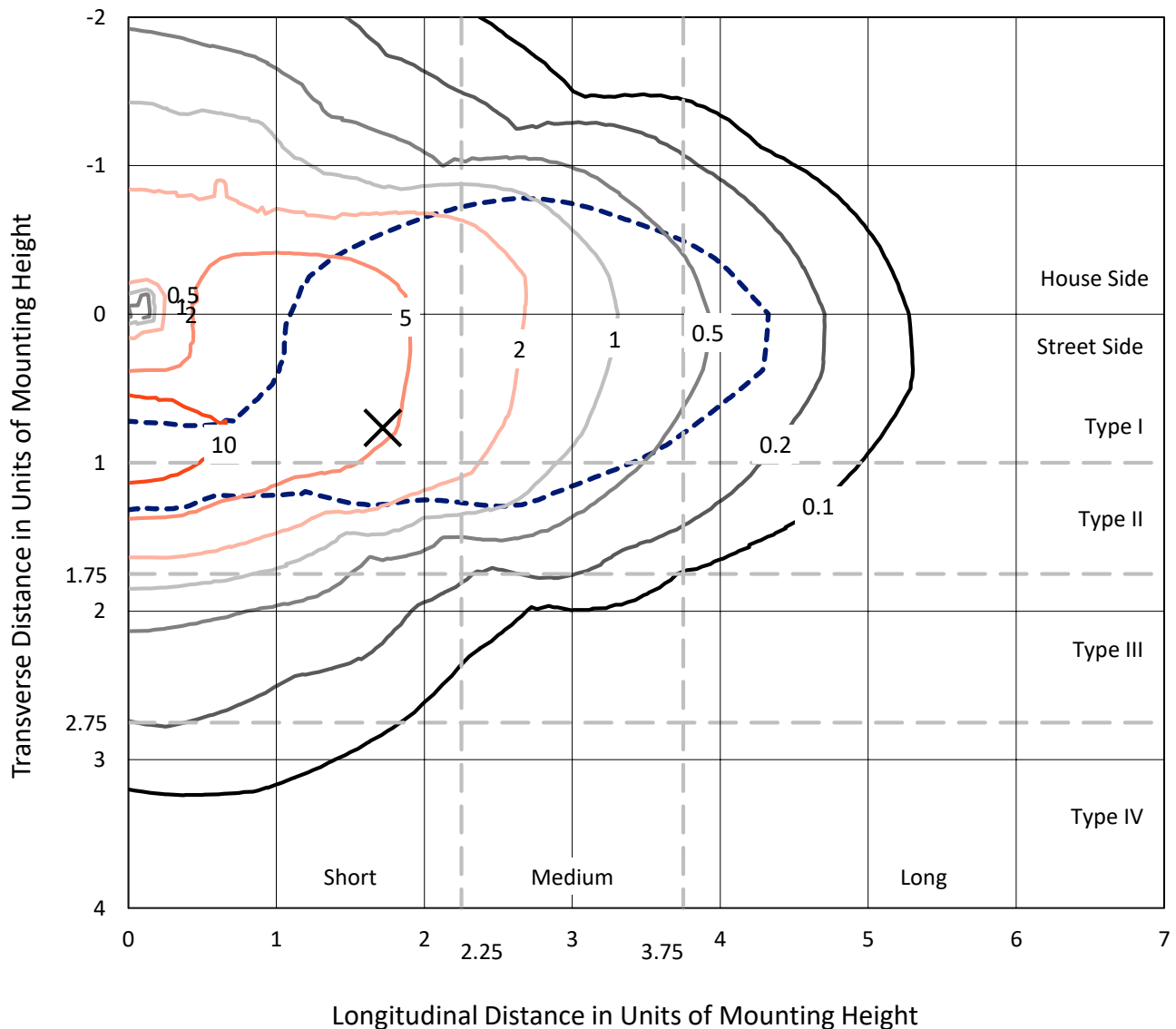


REPORT NUMBER: P241125

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-CL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

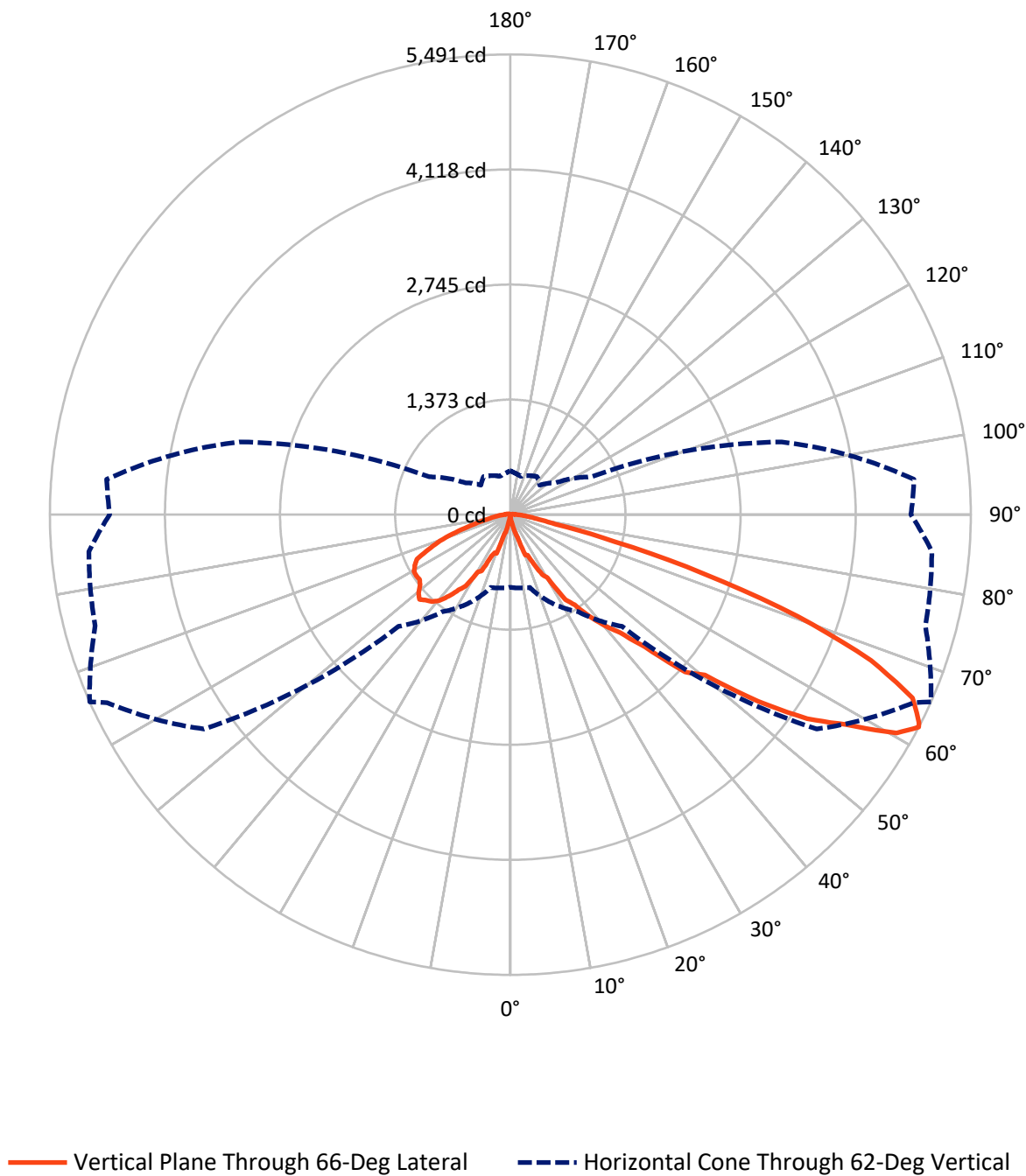


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P241125

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-CL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P241125

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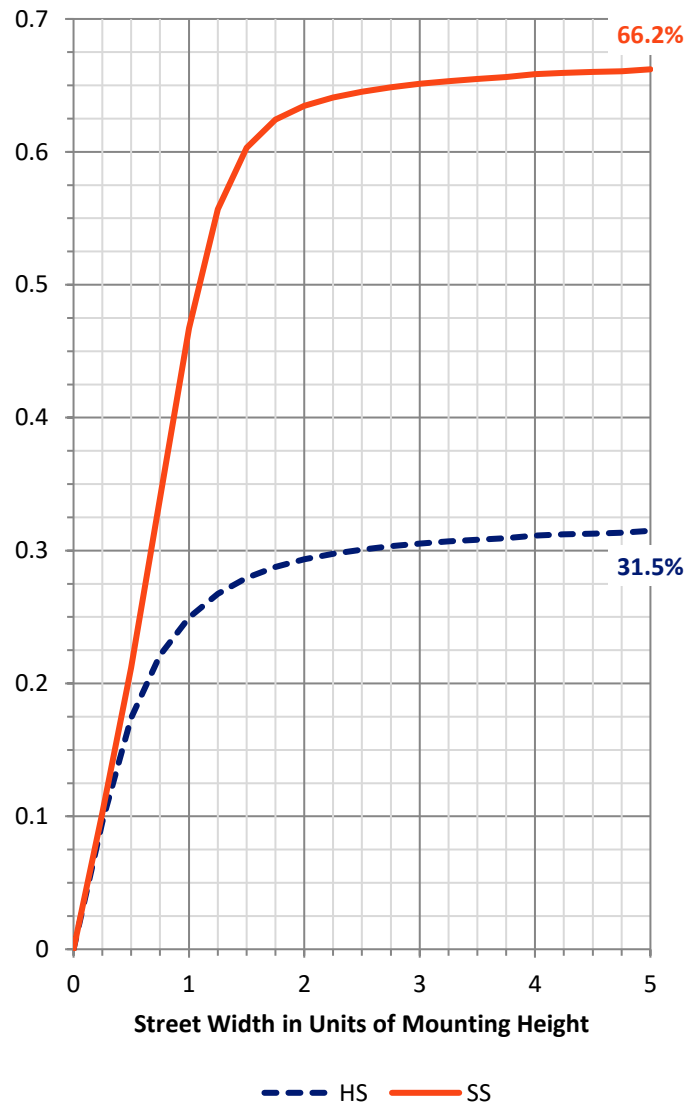
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.9	60.1	2579.9
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	5231.6	44.2	5275.8
	% Fixture	66.6	0.6	67.2
Total	Lumens	7751.5	104.3	7855.7
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	79.7	1.0
20°-30°	315.8	4.0
30°-40°	786.9	10.0
40°-50°	1500.5	19.1
50°-60°	2046.4	26.0
60°-70°	1879.9	23.9
70°-80°	958.9	12.2
80°-90°	176.4	2.2
90°-100°	46.6	0.6
100°-110°	22.4	0.3
110°-120°	13.6	0.2
120°-130°	10.4	0.1
130°-140°	6.9	0.1
140°-150°	3.4	0.0
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7751.5	98.7
0°-180°	7855.7	100.0

Coefficient of Utilization



REPORT NUMBER: P241125

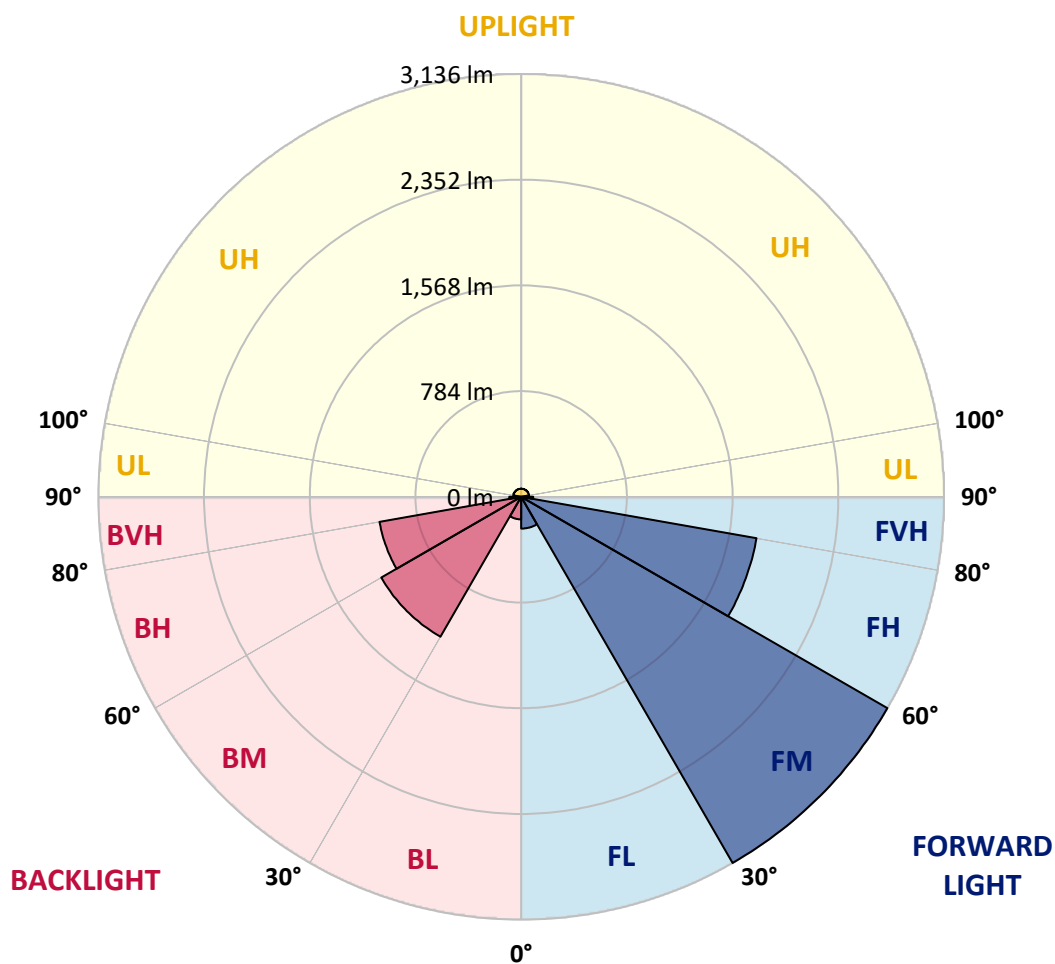
CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-CL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.4	3.0			
FM	(30°-60°)	3135.7	39.9			
FH	(60°-80°)	1772.0	22.6			G1/1800
FVH	(80°-90°)	88.5	1.1			G1/100
BL	(0°-30°)	167.0	2.1	B1/500		
BM	(30°-60°)	1198.1	15.3	B2/2500		
BH	(60°-80°)	1066.8	13.6	B3/2500		G3/2500
BVH	(80°-90°)	87.9	1.1			G1/100
UL	(90°-100°)	46.6	0.6		U2/50	
UH	(100°-180°)	60.1	0.8		U3/500	

BUG Rating: B3-U3-G3

Type II Short





REPORT NUMBER: P241125

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-CL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	97.7	92.9	69.6	60.9	51.3	41.6	31.9	27.1	26.1	24.1	22.3
5°	97.7	97.7	100.6	106.4	118.0	107.4	113.2	40.7	38.7	26.1	21.3
7.5°	186.7	181.8	228.3	161.4	101.5	94.8	144.1	88.1	88.1	40.7	24.1
10°	252.4	251.6	308.5	197.3	181.8	220.4	97.7	100.6	100.6	69.6	33.9
12.5°	247.6	245.7	249.5	271.7	228.3	193.4	196.3	128.6	160.5	253.4	260.1
15°	348.2	366.6	347.2	265.9	243.7	242.8	313.3	237.9	241.8	278.5	204.1
17.5°	464.3	466.2	507.7	431.3	339.5	358.8	331.7	332.7	294.0	308.5	345.3
20°	505.9	497.1	520.4	482.6	482.6	429.4	338.4	479.7	515.4	484.6	478.8
22.5°	868.5	864.7	756.3	529.1	547.4	501.9	512.7	559.1	525.2	493.3	484.6
25°	990.4	977.9	940.0	902.4	671.2	704.0	620.9	607.4	645.0	778.6	842.4
27.5°	1317.3	1331.9	1137.4	1015.6	905.3	757.2	709.9	872.4	809.5	852.1	842.4
30°	1657.8	1650.1	1581.3	1358.0	1137.4	940.0	942.1	915.9	873.4	1004.0	1140.3
32.5°	2149.1	2174.3	1859.9	1625.9	1421.8	1144.2	1036.9	1217.7	1209.9	1172.3	1223.4
35°	2679.1	2675.2	2418.0	2032.1	1537.9	1294.0	1239.0	1346.3	1320.2	1262.2	1357.0
37.5°	3015.7	2978.0	2802.9	2471.1	1880.3	1475.0	1494.3	1572.7	1546.6	1470.1	1645.2
40°	3503.2	3461.6	3252.6	2802.0	2344.4	1787.4	1896.6	1832.9	1747.7	1734.2	1756.5
42.5°	3682.0	3684.0	3479.9	3152.0	2747.8	2234.3	2291.2	2010.8	1924.7	2068.9	2020.4
45°	3738.2	3730.4	3588.3	3342.6	3009.9	2768.1	2586.2	2334.8	2247.8	2379.3	2431.6
47.5°	3615.4	3584.4	3607.6	3333.0	3286.5	3001.2	2963.4	2785.4	2804.8	2730.4	2853.2
50°	3285.5	3240.1	3301.0	3229.4	3427.7	3253.6	3692.8	3018.7	3007.9	3142.4	3295.3
52.5°	2773.9	2740.0	2937.3	2878.3	3396.8	3529.3	3837.8	3689.8	3699.5	3712.1	3628.9
55°	2272.9	2290.3	2441.2	2406.3	2948.9	3589.2	4322.4	4240.2	4296.3	3984.8	3985.8
57.5°	1622.9	1661.7	1933.5	1953.8	2457.7	3156.9	4711.2	4579.6	4723.8	4432.6	4497.4
60°	1118.0	1141.3	1288.2	1493.3	1844.4	2621.1	4504.2	5160.0	5290.6	4888.2	4885.3
62°	867.5	877.3	899.5	1161.7	1416.0	1884.0	4458.8	5305.9	5490.8	5124.2	5044.8
62.5°	804.7	815.3	829.9	1054.3	1305.7	1712.8	4288.5	5337.9	5469.4	5154.2	5072.0
65°	644.2	649.0	616.1	701.2	922.7	1023.3	3081.4	5187.9	5272.2	5117.3	4993.5
67.5°	596.8	579.3	533.8	510.7	690.5	659.6	1677.1	4421.9	4639.5	4897.9	4769.1
70°	494.2	532.9	496.1	456.4	551.3	506.9	711.9	3578.6	3639.5	4483.9	4466.5
72.5°	378.1	406.2	435.3	430.4	424.6	408.2	473.0	2236.1	2415.0	3680.2	4135.7
75°	306.6	318.2	379.1	366.6	377.2	323.1	372.3	1063.0	1286.3	2604.6	3597.0
77.5°	246.6	254.3	295.0	284.4	312.4	252.4	296.9	481.7	545.5	1497.2	2463.5
80°	163.5	167.2	214.7	212.7	228.3	223.4	224.4	337.5	341.4	700.3	1289.3
82.5°	121.9	119.9	147.9	148.9	147.9	161.4	153.8	231.2	240.8	343.4	428.6
85°	79.3	76.4	88.1	93.9	89.9	88.9	116.1	162.5	169.3	244.7	255.3
87.5°	43.4	46.4	58.0	58.0	60.9	60.0	94.8	108.2	113.2	163.5	137.3
90°	29.1	29.1	31.9	30.9	32.9	31.9	49.2	63.8	64.8	82.2	73.5
92.5°	26.1	28.1	31.9	31.9	34.9	29.9	44.5	54.2	55.1	66.7	56.0
95°	23.2	24.1	27.1	28.1	29.9	21.3	33.9	44.5	45.5	55.1	45.5
97.5°	19.3	21.3	23.2	24.1	27.1	19.3	28.1	35.8	36.7	42.5	34.9
100°	19.3	20.3	20.3	20.3	23.2	16.4	24.1	30.9	31.9	34.9	29.1
102.5°	18.3	19.3	18.3	17.4	19.3	14.5	21.3	26.1	26.1	25.1	24.1
105°	18.3	18.3	15.6	13.5	16.4	13.5	18.3	19.3	19.3	19.3	22.3
107.5°	17.4	17.4	14.5	12.6	13.5	11.6	15.6	16.4	16.4	17.4	21.3



REPORT NUMBER: P241125

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-CL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	16.4	15.6	12.6	10.6	10.6	10.6	12.6	13.5	13.5	15.6	22.3
112.5°	14.5	14.5	10.6	9.8	9.8	9.8	11.6	12.6	12.6	14.5	21.3
115°	13.5	13.5	10.6	8.7	8.7	8.7	10.6	11.6	11.6	13.5	21.3
117.5°	14.5	13.5	9.8	8.7	7.7	7.7	8.7	10.6	10.6	13.5	21.3
120°	12.6	12.6	9.8	7.7	6.8	7.7	8.7	9.8	10.6	14.5	21.3
122.5°	13.5	12.6	9.8	6.8	6.8	6.8	7.7	9.8	9.8	13.5	19.3
125°	12.6	11.6	8.7	6.8	5.8	6.8	7.7	8.7	9.8	13.5	19.3
127.5°	12.6	11.6	8.7	6.8	5.8	5.8	7.7	8.7	8.7	12.6	18.3
130°	11.6	11.6	7.7	5.8	5.8	5.8	6.8	7.7	7.7	11.6	16.4
132.5°	10.6	9.8	7.7	5.8	4.8	5.8	6.8	6.8	6.8	10.6	15.6
135°	9.8	9.8	7.7	5.8	4.8	4.8	5.8	6.8	6.8	9.8	13.5
137.5°	8.7	8.7	7.7	5.8	4.8	4.8	4.8	5.8	5.8	8.7	11.6
140°	8.7	8.7	7.7	5.8	4.8	4.8	4.8	4.8	4.8	6.8	9.8
142.5°	8.7	8.7	7.7	5.8	4.8	3.9	3.9	3.9	3.9	5.8	7.7
145°	7.7	7.7	6.8	5.8	3.9	2.9	2.9	3.9	3.9	4.8	5.8
147.5°	7.7	7.7	6.8	4.8	2.9	1.9	1.9	2.9	2.9	3.9	4.8
150°	5.8	5.8	5.8	3.9	1.9	0.0	1.9	1.9	1.9	3.9	3.9
152.5°	3.9	3.9	2.9	1.9	1.0	1.0	1.0	1.9	1.9	1.9	2.9
155°	1.9	1.9	1.9	1.0	1.0	0.0	0.0	1.0	1.0	1.9	1.9
157.5°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
162.5°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0
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: P241125

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	22.3	21.3	21.3	21.3	22.3	22.3	22.3	21.3	20.3	20.3	20.3
5°	20.3	19.3	19.3	19.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
7.5°	22.3	20.3	20.3	19.3	19.3	20.3	22.3	32.9	57.1	80.3	93.9
10°	30.9	30.9	27.1	25.1	25.1	36.7	136.3	147.9	147.9	140.3	135.4
12.5°	280.5	221.5	195.3	68.8	56.0	114.1	130.6	122.8	170.2	198.3	209.9
15°	203.1	222.5	239.9	215.7	291.1	121.9	197.3	239.9	323.1	326.9	329.9
17.5°	341.4	368.5	265.9	232.1	271.7	360.8	295.0	305.6	305.6	305.6	306.6
20°	480.7	489.4	510.7	488.4	272.7	380.1	378.1	307.6	346.3	431.3	455.5
22.5°	510.7	528.0	502.9	487.6	576.5	355.0	390.7	489.4	495.2	472.0	483.6
25°	866.7	841.4	738.9	520.4	575.5	496.1	504.9	458.5	471.0	457.5	466.2
27.5°	859.9	846.3	764.0	750.5	604.5	587.0	469.0	529.1	561.9	583.2	579.3
30°	1201.2	1122.0	885.0	774.7	713.8	561.9	515.4	501.0	497.1	522.3	524.2
32.5°	1207.1	1195.4	1019.4	1002.0	734.1	568.7	486.5	457.5	522.3	557.1	551.3
35°	1400.4	1340.5	1165.5	1081.3	843.4	534.9	434.3	457.5	468.0	493.3	492.3
37.5°	1573.7	1555.2	1412.0	1194.5	812.5	487.6	490.3	487.6	474.8	478.8	478.8
40°	1803.8	1702.3	1574.5	1299.8	760.2	522.3	529.1	460.4	447.9	441.1	441.1
42.5°	2077.6	1905.4	1787.4	1351.2	722.5	615.1	501.0	449.7	437.1	417.8	414.9
45°	2400.5	2186.9	2009.9	1367.6	606.4	637.4	520.4	511.7	470.1	452.7	445.9
47.5°	2684.0	2511.8	2266.1	1394.7	703.2	608.3	684.7	581.3	453.7	478.8	474.8
50°	3109.5	2888.0	2446.0	1326.0	751.4	591.0	711.9	508.7	467.2	501.0	499.1
52.5°	3485.7	3274.9	2634.6	1222.5	710.8	817.3	631.6	583.2	541.6	524.2	522.3
55°	3879.4	3668.6	2762.3	1170.2	702.2	653.8	656.7	631.6	489.4	527.0	526.2
57.5°	4332.0	4216.0	3039.9	1148.1	719.6	577.4	656.7	528.0	558.1	527.0	532.9
60°	4573.8	4573.8	3201.4	1125.8	664.4	592.8	563.9	580.2	484.6	490.3	505.9
62°	4777.0	4831.1	3349.4	1066.8	662.5	497.1	554.2	512.7	473.9	502.9	522.3
62.5°	4845.6	4887.1	3393.9	1055.2	678.9	471.0	513.6	511.7	491.3	495.2	512.7
65°	4912.4	5104.8	3500.2	981.7	624.9	444.9	439.1	485.5	425.6	407.2	408.2
67.5°	4848.5	5113.6	3464.5	790.2	506.9	382.1	387.9	405.3	383.9	377.2	381.1
70°	4615.4	4722.7	3099.8	651.8	437.1	350.1	372.3	357.9	352.1	351.0	350.1
72.5°	4296.3	4092.2	2434.4	490.3	376.3	303.7	319.1	329.9	331.7	326.9	321.1
75°	3624.0	3214.0	1588.1	367.5	300.8	257.3	291.1	299.8	307.6	294.0	289.2
77.5°	2487.7	2026.2	822.0	292.0	260.1	215.7	255.3	268.9	276.7	256.3	259.2
80°	1154.9	924.7	380.1	239.0	215.7	178.9	216.7	234.1	244.7	217.7	207.9
82.5°	389.7	355.9	229.2	184.7	177.0	136.3	175.1	195.3	198.3	180.9	153.8
85°	232.1	233.0	160.5	142.1	130.6	85.1	125.7	153.8	153.8	127.7	104.5
87.5°	133.6	149.9	122.8	108.2	97.7	58.0	93.9	105.4	103.5	81.3	58.0
90°	66.7	78.3	72.5	71.6	73.5	36.7	73.5	79.3	79.3	56.0	35.8
92.5°	49.2	60.0	64.8	60.9	62.0	28.1	59.0	60.0	59.0	43.4	28.1
95°	41.6	52.2	64.8	60.9	59.0	23.2	54.2	55.1	56.0	42.5	30.9
97.5°	32.9	39.7	50.3	49.2	53.2	19.3	49.2	49.2	47.4	34.9	26.1
100°	29.9	34.9	42.5	42.5	46.4	17.4	43.4	39.7	37.7	28.1	24.1
102.5°	25.1	28.1	32.9	31.9	34.9	16.4	31.9	30.9	29.1	24.1	23.2
105°	24.1	25.1	25.1	23.2	24.1	15.6	22.3	21.3	20.3	20.3	21.3
107.5°	23.2	23.2	21.3	19.3	19.3	14.5	16.4	15.6	16.4	21.3	22.3



REPORT NUMBER: P241125

CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	23.2	23.2	19.3	17.4	15.6	13.5	14.5	12.6	14.5	21.3	23.2
112.5°	23.2	23.2	17.4	14.5	14.5	12.6	12.6	11.6	13.5	21.3	23.2
115°	22.3	22.3	16.4	13.5	12.6	11.6	11.6	10.6	13.5	21.3	23.2
117.5°	22.3	22.3	16.4	13.5	11.6	10.6	10.6	9.8	13.5	22.3	23.2
120°	22.3	22.3	16.4	12.6	11.6	10.6	9.8	9.8	13.5	21.3	23.2
122.5°	21.3	20.3	15.6	11.6	10.6	9.8	9.8	9.8	13.5	22.3	23.2
125°	20.3	19.3	15.6	11.6	9.8	9.8	8.7	8.7	13.5	21.3	22.3
127.5°	19.3	19.3	14.5	10.6	9.8	8.7	8.7	8.7	13.5	22.3	22.3
130°	18.3	17.4	13.5	9.8	8.7	7.7	7.7	8.7	14.5	20.3	21.3
132.5°	16.4	15.6	12.6	8.7	7.7	7.7	7.7	7.7	13.5	20.3	20.3
135°	13.5	13.5	10.6	7.7	6.8	6.8	6.8	7.7	12.6	17.4	18.3
137.5°	12.6	11.6	9.8	7.7	5.8	6.8	6.8	7.7	12.6	16.4	17.4
140°	10.6	9.8	7.7	5.8	5.8	5.8	5.8	6.8	10.6	14.5	15.6
142.5°	7.7	7.7	6.8	4.8	4.8	4.8	4.8	6.8	9.8	12.6	12.6
145°	6.8	6.8	5.8	4.8	3.9	2.9	2.9	4.8	7.7	10.6	10.6
147.5°	4.8	4.8	4.8	3.9	2.9	2.9	2.9	3.9	5.8	7.7	7.7
150°	3.9	3.9	3.9	2.9	2.9	1.9	1.9	2.9	4.8	5.8	5.8
152.5°	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.9	2.9	3.9	3.9
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.9	1.9
157.5°	1.0	1.0	1.0	1.9	1.9	1.9	1.0	1.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.9	1.9	1.9	1.0	1.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.9	1.9	1.0	1.0	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)