

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: P240964

Luminaire Tested: **UTLD-AF24-20-D-U-T3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2320 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U2 - G1

Input Watts (W): 21
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

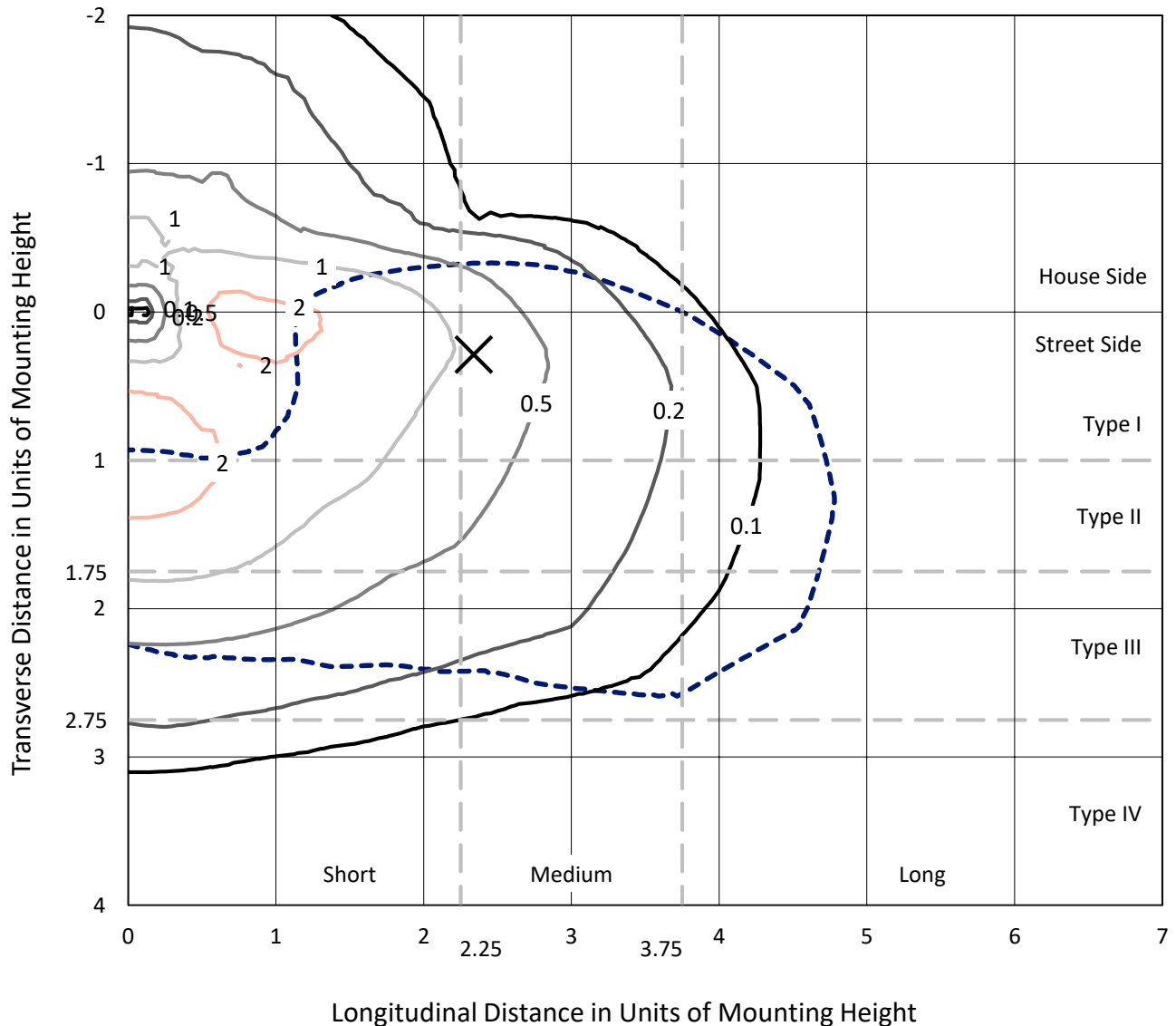


REPORT NUMBER: P240964

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

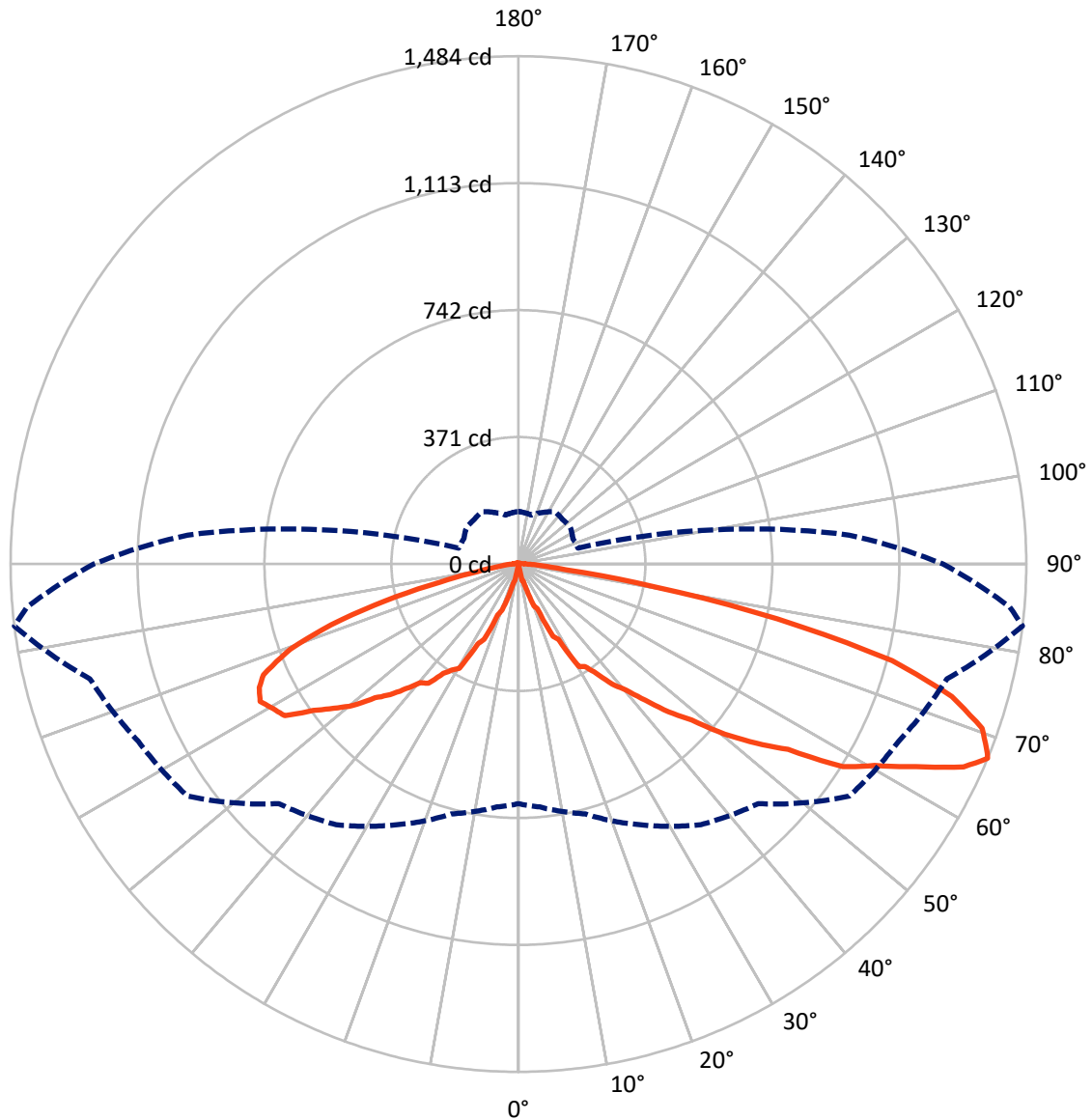


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P240964

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL

Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P240964

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL

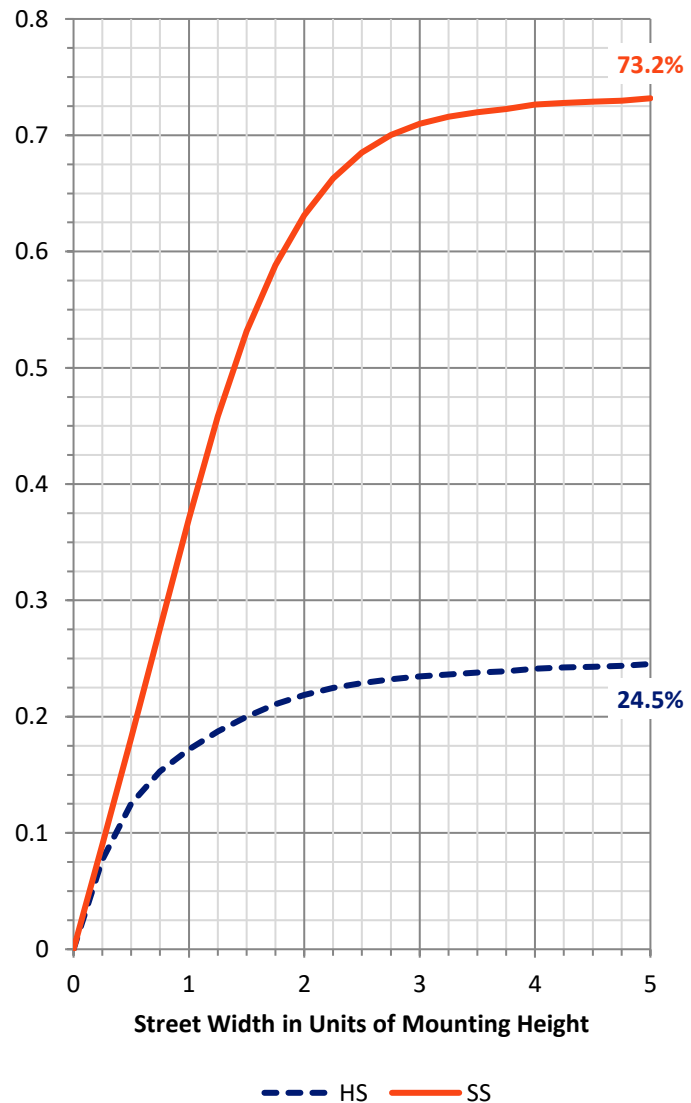
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	582.1	15.4	597.5
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	1709.5	12.9	1722.5
	% Fixture	73.7	0.6	74.2
Total	Lumens	2291.7	28.3	2320.0
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.1
10°-20°	21.0	0.9
20°-30°	84.3	3.6
30°-40°	186.2	8.0
40°-50°	331.9	14.3
50°-60°	532.6	23.0
60°-70°	648.0	27.9
70°-80°	417.6	18.0
80°-90°	68.6	3.0
90°-100°	14.1	0.6
100°-110°	6.4	0.3
110°-120°	3.3	0.1
120°-130°	2.3	0.1
130°-140°	1.4	0.1
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2291.7	98.8
0°-180°	2320.0	100.0



REPORT NUMBER: P240964

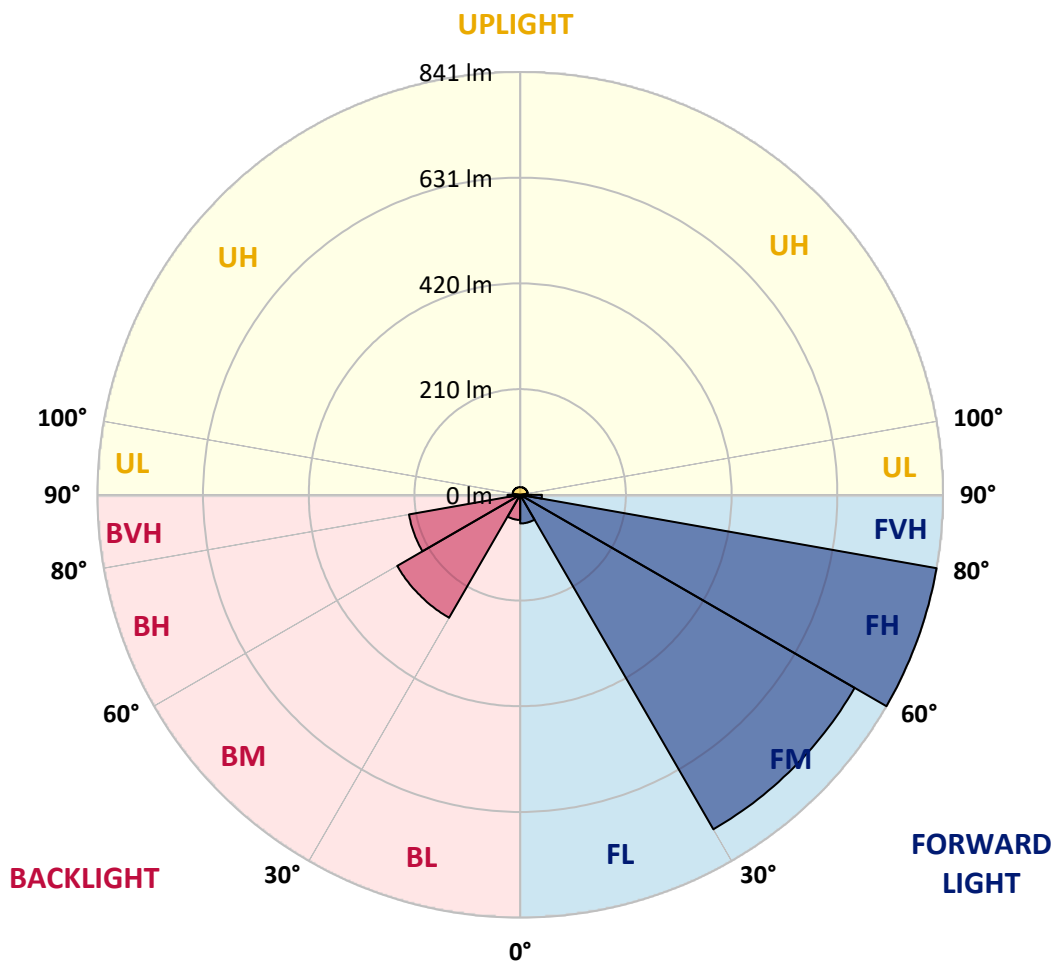
CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.0	2.5			
FM	(30°-60°)	768.2	33.1			
FH	(60°-80°)	841.0	36.2			G1/1800
FVH	(80°-90°)	43.4	1.9			G1/100
BL	(0°-30°)	49.9	2.2	B0/110		
BM	(30°-60°)	282.4	12.2	B1/1000		
BH	(60°-80°)	224.6	9.7	B1/500		G1/500
BVH	(80°-90°)	25.2	1.1			G1/100
UL	(90°-100°)	14.1	0.6		U2/50	
UH	(100°-180°)	15.4	0.7		U2/50	

BUG Rating: B1-U2-G1

Type III Medium





REPORT NUMBER: P240964

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
2.5°	11.7	11.7	11.7	10.5	9.1	7.4	6.5	5.7	5.4	5.4	5.4
5°	25.9	27.0	25.9	25.6	23.0	28.1	11.4	7.7	5.7	5.1	5.1
7.5°	36.6	37.2	30.2	27.8	22.5	30.7	24.8	13.9	7.1	5.7	5.4
10°	63.6	54.8	46.6	46.0	43.2	32.4	22.2	19.9	11.0	8.5	8.8
12.5°	61.7	63.4	62.3	60.3	55.4	46.3	29.6	38.1	41.7	49.2	46.3
15°	75.6	74.5	66.0	66.5	63.1	67.1	59.9	63.4	59.7	52.1	54.3
17.5°	117.1	113.1	118.6	90.9	66.5	81.5	83.0	74.2	79.3	81.8	90.9
20°	133.9	128.2	135.0	115.7	110.3	92.7	88.4	134.4	125.3	131.7	132.8
22.5°	185.1	181.9	162.3	132.5	141.0	118.3	126.2	139.5	142.4	141.0	145.6
25°	233.3	233.1	230.8	203.8	150.4	167.7	145.8	159.2	205.5	233.9	236.5
27.5°	276.3	274.0	257.8	250.1	210.6	189.3	174.0	220.5	235.4	249.0	252.2
30°	349.3	364.2	329.2	284.5	255.0	218.0	233.9	232.8	283.4	347.6	351.1
32.5°	410.2	401.9	365.5	328.1	297.9	269.4	246.4	325.2	339.1	356.7	364.7
35°	500.0	503.1	464.7	365.8	341.1	301.9	322.3	353.0	362.7	392.0	394.2
37.5°	522.4	547.2	524.7	438.6	362.7	330.0	346.8	386.3	418.1	445.1	428.1
40°	621.3	608.9	560.8	491.4	407.3	369.5	424.1	447.4	452.2	483.8	487.7
42.5°	718.3	723.7	664.3	576.1	465.3	429.5	477.2	471.0	517.0	544.3	559.1
45°	812.6	815.2	768.3	656.9	558.2	529.6	506.3	533.0	609.7	616.2	619.9
47.5°	876.7	876.9	857.0	745.0	636.7	571.9	564.6	593.2	669.4	681.1	684.5
50°	976.4	973.8	928.0	803.8	740.5	655.7	684.5	673.7	739.6	781.6	790.7
52.5°	1015.6	1002.8	978.4	889.5	833.7	749.8	736.7	756.4	831.8	869.8	899.9
55°	990.0	1012.2	1007.7	943.7	861.2	832.6	798.4	872.1	897.6	956.3	1009.7
57.5°	936.9	975.0	992.9	969.0	924.1	859.0	920.1	909.0	1007.1	1118.0	1153.8
60°	900.5	924.1	960.4	989.5	956.8	932.9	992.3	1050.3	1087.8	1195.8	1243.6
62.5°	835.1	857.5	915.8	957.9	939.5	947.4	1072.5	1102.8	1213.4	1303.5	1368.6
65°	757.5	778.6	846.8	890.8	934.9	966.2	1123.3	1182.2	1260.7	1429.5	1438.6
67°	700.4	712.6	756.1	840.8	929.5	990.3	1181.3	1225.7	1296.2	1484.1	1441.1
67.5°	681.4	693.3	728.9	816.6	926.4	994.0	1197.8	1238.5	1301.3	1478.4	1440.5
70°	524.5	566.8	567.6	651.5	827.2	966.7	1227.1	1282.6	1332.3	1437.5	1390.8
72.5°	314.0	314.0	328.6	411.0	586.4	864.7	1227.1	1267.1	1310.1	1324.3	1245.9
75°	152.1	145.0	164.6	197.2	295.3	583.3	1106.0	1161.5	1166.9	1128.2	1010.5
77.5°	125.3	108.8	103.4	101.2	158.4	218.3	739.1	906.7	907.1	774.0	677.4
80°	78.5	79.3	81.5	70.2	90.6	112.8	294.8	552.3	502.0	402.2	338.8
82.5°	55.4	57.4	58.3	52.1	63.4	52.9	98.1	233.1	203.0	140.1	118.9
85°	39.0	37.8	42.4	35.3	38.1	31.3	54.0	100.4	114.3	69.4	65.7
87.5°	23.3	23.3	28.4	23.8	26.2	22.5	32.7	49.2	56.9	39.2	36.6
90°	13.9	12.8	13.4	13.6	14.7	12.8	17.6	23.6	24.8	19.9	18.2
92.5°	10.5	10.5	11.4	10.8	13.4	11.7	15.3	18.5	22.5	17.1	16.0
95°	6.9	7.7	8.5	8.8	10.2	8.8	12.8	15.0	16.8	13.1	12.5
97.5°	6.2	6.9	7.4	7.4	8.5	7.1	10.5	13.4	13.4	10.2	9.4
100°	5.9	6.2	6.5	6.5	7.1	5.7	8.3	11.7	11.7	8.5	8.0
102.5°	5.4	5.7	5.4	5.1	5.9	4.5	6.9	10.2	8.3	6.5	6.9
105°	5.4	5.4	4.8	4.3	4.8	3.7	5.9	7.4	5.7	5.4	5.7
107.5°	5.1	5.1	4.0	3.7	4.0	3.2	4.8	5.1	4.5	5.1	5.4



REPORT NUMBER: P240964

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	4.8	4.5	3.7	3.2	3.2	2.9	3.7	3.7	3.7	4.8	5.4
112.5°	4.3	4.0	3.2	2.6	2.6	2.3	2.6	2.9	3.4	4.5	5.1
115°	4.0	3.7	2.9	2.3	1.9	1.9	2.3	2.3	3.2	4.5	5.1
117.5°	4.0	3.7	2.6	2.3	1.7	1.7	1.9	2.3	3.2	4.5	5.1
120°	3.7	3.7	2.6	1.9	1.7	1.4	1.7	1.9	3.2	4.8	5.1
122.5°	3.7	3.4	2.6	1.9	1.4	1.4	1.4	1.7	2.9	4.5	4.8
125°	3.4	3.4	2.3	1.7	1.4	1.1	1.4	1.7	3.2	4.5	4.8
127.5°	3.4	3.2	2.3	1.7	1.1	1.1	1.4	1.4	2.9	4.3	4.5
130°	3.4	3.2	2.3	1.4	1.1	1.1	1.1	1.4	2.9	4.0	4.3
132.5°	2.9	2.9	1.9	1.4	1.1	0.8	1.1	1.1	2.3	3.4	3.7
135°	2.9	2.6	1.9	1.4	1.1	0.8	0.8	1.1	2.3	3.2	3.2
137.5°	2.6	2.3	1.9	1.4	0.8	0.8	0.6	0.8	1.9	2.6	2.9
140°	2.3	2.3	1.7	1.4	0.8	0.6	0.6	0.8	1.4	1.9	2.3
142.5°	2.3	2.3	1.9	1.4	0.8	0.6	0.6	0.6	1.1	1.7	1.7
145°	1.9	1.9	1.7	1.1	0.6	0.3	0.3	0.6	0.8	1.1	1.4
147.5°	1.9	1.9	1.7	1.1	0.6	0.3	0.3	0.6	0.8	1.1	1.1
150°	1.7	1.7	1.4	0.8	0.3	0.0	0.0	0.3	0.6	0.8	0.8
152.5°	1.1	1.1	0.8	0.6	0.0	0.0	0.0	0.3	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	0.3	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



REPORT NUMBER: P240964

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
2.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1
5°	4.8	4.8	5.1	5.1	5.1	5.1	5.1	5.4	5.7	5.7	5.9
7.5°	5.4	5.4	5.1	5.1	5.4	5.9	9.6	20.5	38.7	35.8	35.5
10°	8.5	8.5	7.7	7.1	7.7	27.8	43.8	41.5	35.0	34.1	32.9
12.5°	54.0	50.3	40.6	25.6	37.2	35.3	40.9	48.1	62.5	65.7	63.4
15°	54.3	56.6	61.1	66.2	83.9	37.2	72.2	88.4	94.4	94.4	96.4
17.5°	94.4	101.8	78.2	70.5	83.6	102.3	80.7	89.8	89.0	89.3	86.7
20°	153.5	138.7	152.9	137.3	93.8	114.6	100.7	96.4	129.9	154.7	154.7
22.5°	152.1	161.2	159.2	157.7	165.1	101.8	128.5	139.5	144.6	138.1	148.1
25°	253.8	244.2	230.8	157.4	158.4	141.6	138.7	130.2	141.6	152.6	150.4
27.5°	265.5	267.8	242.4	234.5	166.0	159.2	130.7	151.5	165.1	166.0	164.6
30°	362.4	366.9	286.2	216.0	186.5	145.3	152.9	146.1	152.6	160.3	164.6
32.5°	383.4	376.7	316.1	243.4	182.8	153.7	140.7	146.1	170.8	170.8	169.4
35°	408.5	403.3	325.7	231.1	199.3	143.8	130.2	145.6	152.6	165.1	166.0
37.5°	458.8	455.9	357.6	230.6	177.4	135.8	143.2	147.0	149.2	152.1	149.6
40°	492.0	470.1	367.2	240.8	171.7	157.4	149.2	138.4	140.5	133.3	130.2
42.5°	554.5	517.9	376.7	233.9	167.5	173.7	138.7	136.8	131.9	124.5	124.5
45°	618.3	571.3	389.1	220.0	161.4	168.6	143.0	139.8	135.5	134.4	131.9
47.5°	683.0	619.9	387.2	228.8	181.1	157.7	179.1	150.4	129.3	140.5	139.5
50°	789.6	699.0	388.8	211.4	180.4	154.9	179.3	142.4	138.4	147.0	147.8
52.5°	876.7	752.7	412.5	201.5	174.8	179.3	169.7	172.6	163.2	160.6	163.8
55°	980.7	821.4	397.1	189.6	170.2	169.1	199.8	173.7	165.1	173.4	174.2
57.5°	1111.1	917.3	400.5	170.2	171.7	162.9	195.6	194.5	189.3	185.4	183.9
60°	1186.7	948.0	368.7	181.7	166.3	179.6	207.5	201.5	174.5	202.6	207.2
62.5°	1246.2	995.7	290.5	179.6	184.7	171.4	190.5	196.7	183.9	205.2	207.8
65°	1260.7	993.2	222.6	184.4	182.8	190.5	225.5	193.3	160.6	163.8	165.1
67°	1240.7	970.7	180.4	175.6	185.4	183.3	186.5	166.0	148.3	151.5	153.7
67.5°	1229.4	952.5	171.1	175.1	191.6	183.0	182.8	159.8	145.0	148.9	149.8
70°	1123.6	853.3	143.2	172.8	189.9	166.3	170.8	140.7	127.9	129.3	129.9
72.5°	962.2	684.8	136.8	172.0	186.5	138.7	131.3	115.1	108.8	106.9	104.0
75°	738.5	471.9	135.0	155.2	153.2	104.9	105.2	95.7	96.4	92.1	90.4
77.5°	444.9	264.3	114.9	131.3	114.9	80.2	87.0	85.0	87.3	82.8	79.9
80°	213.2	129.1	90.6	96.7	81.0	62.8	74.2	77.3	77.8	71.3	68.2
82.5°	91.2	66.8	61.4	60.6	57.7	48.6	59.9	63.1	63.6	59.7	47.8
85°	53.7	45.5	42.4	40.6	40.1	30.2	43.0	50.8	50.8	42.0	36.4
87.5°	33.6	33.2	29.9	29.9	31.3	21.3	29.6	35.0	32.9	25.1	19.9
90°	16.0	17.1	17.9	18.2	21.3	12.0	19.0	20.2	19.0	13.6	9.6
92.5°	12.8	14.5	15.7	16.2	19.3	10.2	17.1	18.2	17.4	13.6	9.6
95°	10.5	13.1	15.7	15.3	16.2	8.0	15.0	16.5	16.0	12.0	8.3
97.5°	8.5	10.5	12.8	12.8	14.7	6.9	13.9	15.7	15.3	10.8	8.0
100°	7.7	9.4	11.4	11.0	13.1	5.4	12.5	13.6	13.4	8.8	7.1
102.5°	6.9	7.7	8.8	8.8	9.6	4.5	9.4	10.5	9.9	7.4	7.1
105°	6.2	6.5	6.2	5.9	6.2	4.0	5.9	6.9	5.9	5.7	5.7
107.5°	5.9	5.9	5.1	4.8	4.5	3.4	4.3	4.5	4.0	5.1	5.7



REPORT NUMBER: P240964

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.9	5.7	4.5	4.3	3.7	3.2	3.4	3.4	3.4	5.1	5.4
112.5°	5.7	5.7	4.3	3.7	3.4	2.9	2.9	2.6	3.2	5.1	5.7
115°	5.7	5.4	4.0	3.4	2.9	2.6	2.3	2.3	2.9	5.1	5.7
117.5°	5.7	5.4	4.0	3.2	2.9	2.3	1.9	1.9	2.9	5.1	5.7
120°	5.7	5.7	4.0	2.9	2.6	2.3	1.9	1.9	2.9	4.8	5.4
122.5°	5.4	5.4	3.7	2.9	2.3	1.9	1.7	1.7	2.9	4.8	5.1
125°	5.1	5.1	3.7	2.6	1.9	1.7	1.7	1.7	2.9	4.5	5.1
127.5°	4.8	4.8	3.4	2.3	1.7	1.7	1.4	1.4	2.9	4.5	4.8
130°	4.5	4.5	3.2	1.9	1.7	1.4	1.1	1.4	2.9	4.3	4.5
132.5°	4.0	4.0	2.9	1.7	1.4	1.1	1.1	1.1	2.6	4.0	4.3
135°	3.4	3.4	2.6	1.7	1.4	1.1	0.8	1.1	2.3	3.4	3.7
137.5°	3.2	3.2	2.3	1.4	1.1	0.8	0.8	1.1	2.3	3.2	3.4
140°	2.3	2.3	1.7	1.1	0.8	0.8	0.6	0.8	1.9	2.6	2.9
142.5°	1.7	1.7	1.4	1.1	0.8	0.6	0.6	0.8	1.7	2.3	2.3
145°	1.4	1.4	1.1	0.8	0.8	0.6	0.3	0.6	1.4	1.9	1.9
147.5°	1.1	1.1	1.1	0.8	0.6	0.3	0.3	0.3	0.8	1.4	1.4
150°	0.8	0.8	0.8	0.8	0.6	0.0	0.0	0.0	0.6	0.8	0.8
152.5°	0.6	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.3	0.3
155°	0.3	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.3	0.3	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)