

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: P240955

Luminaire Tested: **UTLD-AF24-20-D-U-T3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240955
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 2193.9 lumens
Efficiency: N/A
Efficacy: 104.5 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



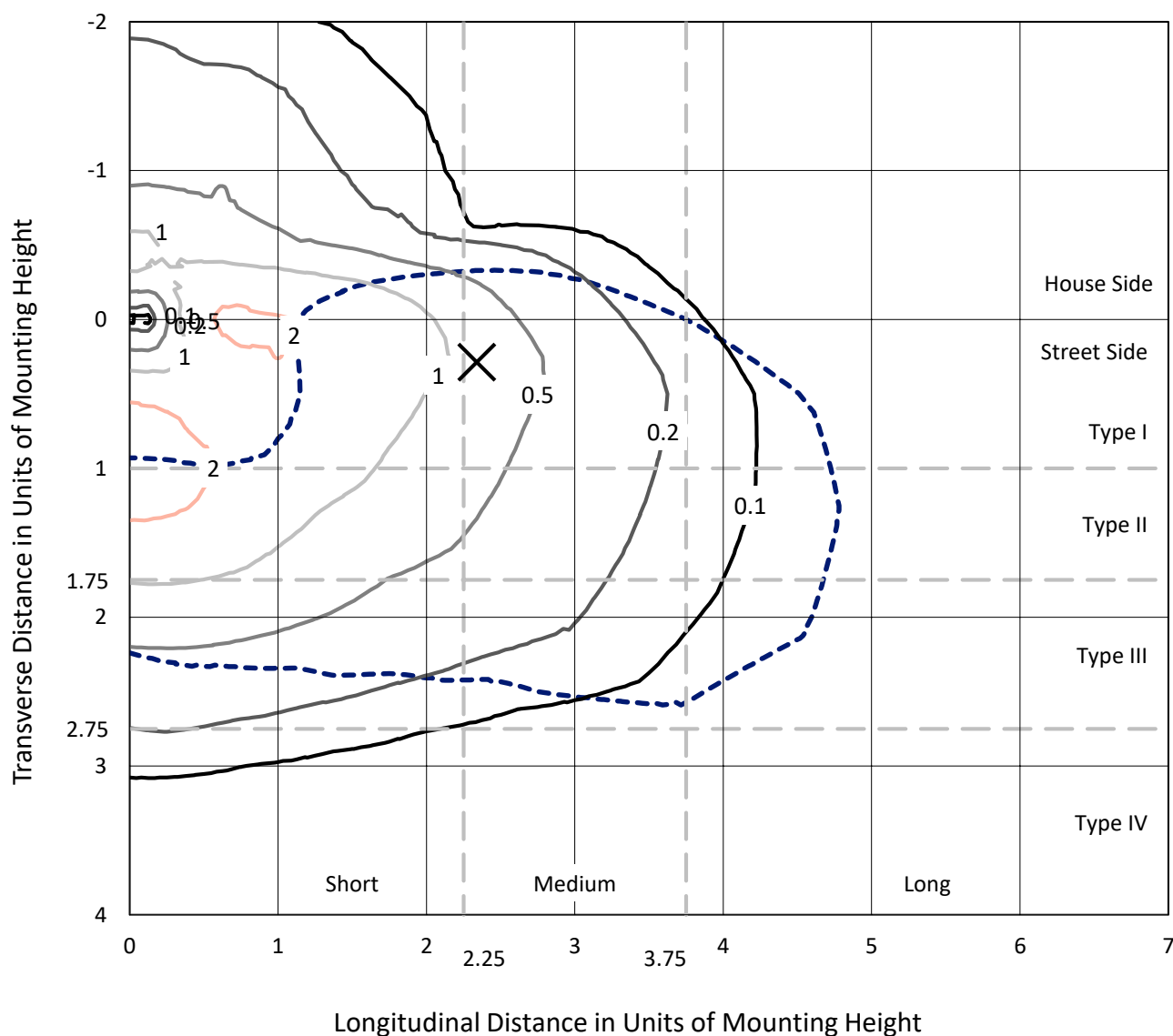
REPORT NUMBER: P240955

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

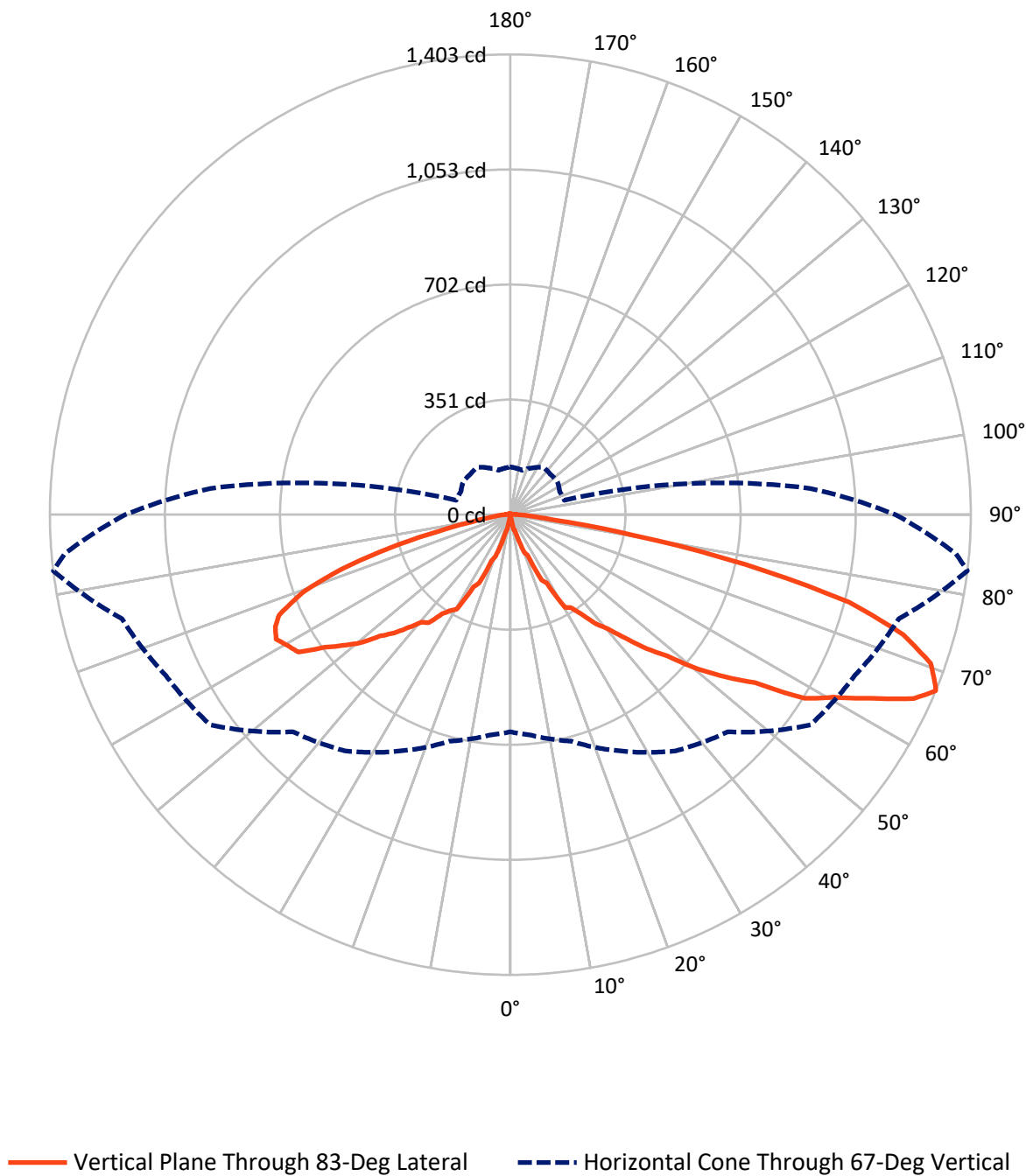


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Medium - Non-Cutoff

REPORT NUMBER: P240955

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240955

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL-7030

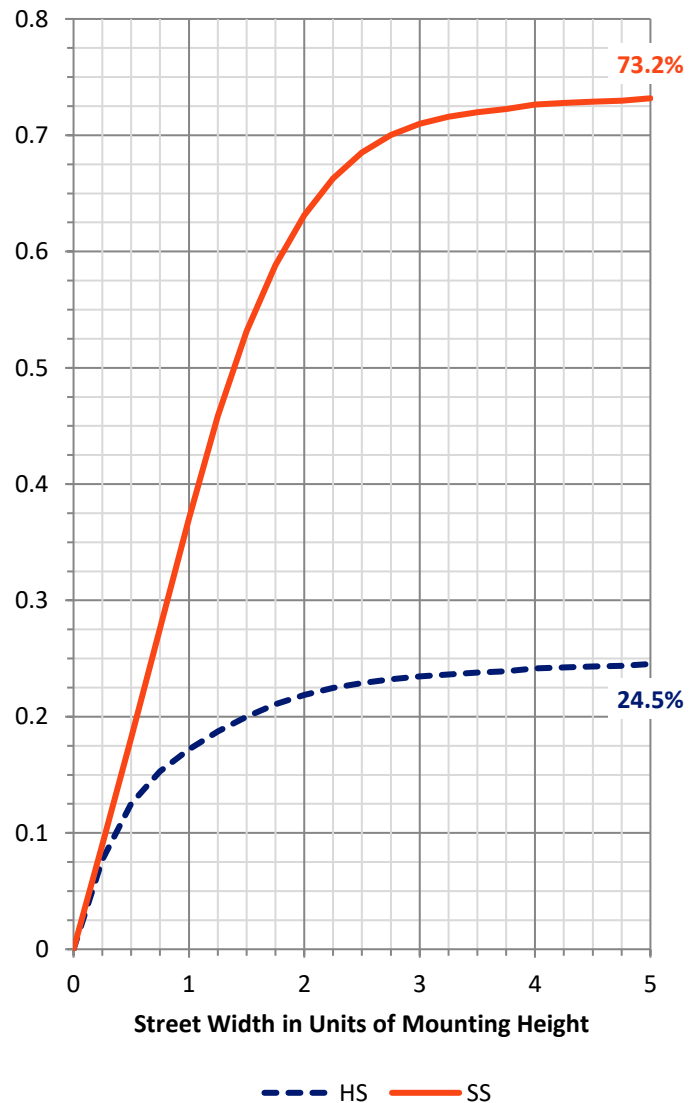
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.5	14.5	565.0
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	1616.6	12.2	1628.8
	% Fixture	73.7	0.6	74.2
Total	Lumens	2167.1	26.8	2193.9
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.1
10°-20°	19.8	0.9
20°-30°	79.7	3.6
30°-40°	176.1	8.0
40°-50°	313.8	14.3
50°-60°	503.6	23.0
60°-70°	612.8	27.9
70°-80°	394.8	18.0
80°-90°	64.9	3.0
90°-100°	13.3	0.6
100°-110°	6.1	0.3
110°-120°	3.1	0.1
120°-130°	2.2	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°	2167.1	98.8
0°-180°	2193.9	100.0

Coefficient of Utilization



REPORT NUMBER: P240955

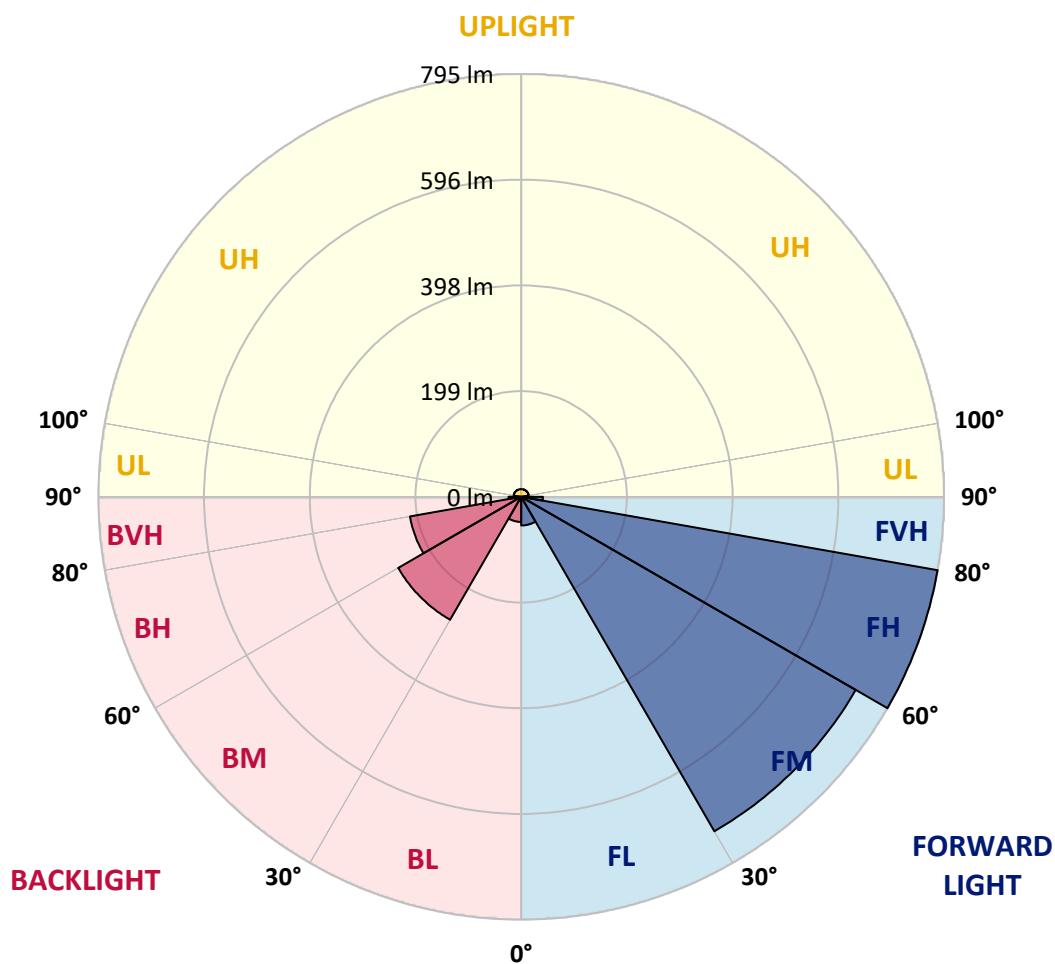
CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	53.9	2.5			
FM	(30°-60°)	726.4	33.1			
FH	(60°-80°)	795.3	36.2			G1/1800
FVH	(80°-90°)	41.0	1.9			G1/100
BL	(0°-30°)	47.2	2.2	B0/110		
BM	(30°-60°)	267.1	12.2	B1/1000		
BH	(60°-80°)	212.4	9.7	B1/500		G1/500
BVH	(80°-90°)	23.8	1.1			G1/100
UL	(90°-100°)	13.3	0.6		U2/50	
UH	(100°-180°)	14.5	0.7		U2/50	

BUG Rating: B1-U2-G1

Type III Medium





REPORT NUMBER: P240955

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	11.0	11.0	11.0	10.0	8.6	7.0	6.2	5.4	5.1	5.1	5.1
5°	24.5	25.5	24.5	24.1	21.8	26.7	10.7	7.2	5.4	4.8	4.8
7.5°	34.6	35.2	28.5	26.3	21.2	29.1	23.4	13.2	6.8	5.4	5.1
10°	60.2	51.9	44.0	43.6	40.9	30.6	21.0	18.8	10.5	8.0	8.3
12.5°	58.4	60.0	58.9	57.1	52.5	43.8	28.0	36.0	39.6	46.6	43.8
15°	71.4	70.5	62.4	63.0	59.6	63.5	56.7	60.0	56.5	49.1	51.4
17.5°	110.8	107.0	112.1	86.0	63.0	77.1	78.4	70.2	75.0	77.5	86.0
20°	126.6	121.3	127.8	109.4	104.4	87.6	83.6	127.2	118.5	124.4	125.5
22.5°	175.1	172.1	153.5	125.2	133.3	111.8	119.3	131.9	134.7	133.3	137.6
25°	220.7	220.3	218.3	192.8	142.1	158.5	137.8	150.6	194.4	221.2	223.7
27.5°	261.2	259.2	243.7	236.5	199.2	178.9	164.6	208.5	222.6	235.5	238.4
30°	330.4	344.2	311.3	269.1	241.1	206.2	221.2	220.1	268.0	328.8	331.9
32.5°	387.9	380.1	345.7	310.2	281.7	254.8	233.0	307.4	320.6	337.4	344.8
35°	472.8	475.8	439.4	346.0	322.6	285.5	304.9	333.9	343.0	370.7	372.8
37.5°	494.1	517.5	496.1	414.7	343.0	312.1	327.9	365.3	395.4	420.9	404.8
40°	587.6	575.8	530.4	464.8	385.1	349.4	401.1	423.1	427.6	457.5	461.3
42.5°	679.3	684.4	628.1	544.8	440.0	406.1	451.4	445.3	488.9	514.7	528.7
45°	768.5	771.0	726.6	621.1	527.9	500.7	478.8	504.0	576.6	582.8	586.2
47.5°	829.0	829.3	810.3	704.5	602.1	540.9	533.8	560.9	633.0	644.1	647.3
50°	923.4	920.9	877.6	760.1	700.3	620.1	647.3	637.1	699.4	739.1	747.8
52.5°	960.4	948.3	925.2	841.1	788.5	709.1	696.7	715.2	786.4	822.5	851.0
55°	936.3	957.2	952.8	892.4	814.4	787.3	755.1	824.7	848.8	904.2	954.7
57.5°	886.0	921.9	938.9	916.3	873.8	812.4	870.1	859.7	952.3	1057.2	1091.1
60°	851.5	873.8	908.3	935.7	904.7	882.2	938.3	993.1	1028.6	1130.9	1175.9
62.5°	789.7	810.9	866.1	905.9	888.4	895.9	1014.2	1042.9	1147.4	1232.7	1294.2
65°	716.3	736.2	800.8	842.4	884.0	913.6	1062.3	1117.9	1192.1	1351.7	1360.4
67°	662.3	673.9	715.0	795.1	879.0	936.5	1117.0	1159.0	1225.7	1403.4	1362.8
67.5°	644.3	655.5	689.2	772.3	876.0	939.9	1132.7	1171.1	1230.6	1398.0	1362.3
70°	495.9	536.0	536.8	616.1	782.2	914.2	1160.5	1212.8	1259.9	1359.3	1315.3
72.5°	296.9	296.9	310.8	388.6	554.5	817.7	1160.5	1198.2	1238.9	1252.3	1178.2
75°	143.7	137.1	155.5	186.5	279.2	551.5	1045.8	1098.3	1103.4	1066.8	955.6
77.5°	118.5	102.9	97.8	95.7	149.6	206.4	698.8	857.4	857.6	731.9	640.6
80°	74.2	75.0	77.1	66.4	85.8	106.7	278.7	522.3	474.7	380.3	320.4
82.5°	52.5	54.3	55.0	49.1	60.0	50.0	92.8	220.3	192.0	132.5	112.3
85°	36.8	35.7	40.1	33.4	36.0	29.6	51.1	94.8	108.0	65.5	62.1
87.5°	22.1	22.1	26.9	22.6	24.7	21.2	30.9	46.6	53.7	37.1	34.6
90°	13.2	12.1	12.7	12.9	13.9	12.1	16.7	22.3	23.4	18.8	17.2
92.5°	10.0	10.0	10.7	10.2	12.7	11.0	14.5	17.5	21.2	16.2	15.1
95°	6.4	7.2	8.0	8.3	9.8	8.3	12.1	14.2	15.9	12.3	11.8
97.5°	5.9	6.4	7.0	7.0	8.0	6.8	10.0	12.7	12.7	9.8	8.8
100°	5.7	5.9	6.2	6.2	6.8	5.4	7.7	11.0	11.0	8.0	7.5
102.5°	5.1	5.4	5.1	4.8	5.7	4.3	6.4	9.8	7.7	6.2	6.4
105°	5.1	5.1	4.6	4.1	4.6	3.5	5.7	7.0	5.4	5.1	5.4
107.5°	4.8	4.8	3.8	3.5	3.8	2.9	4.6	4.8	4.3	4.8	5.1



REPORT NUMBER: P240955

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	4.6	4.3	3.5	2.9	2.9	2.7	3.5	3.5	3.5	4.6	5.1
112.5°	4.1	3.8	2.9	2.4	2.4	2.1	2.4	2.7	3.3	4.3	4.8
115°	3.8	3.5	2.7	2.1	1.8	1.8	2.1	2.1	2.9	4.3	4.8
117.5°	3.8	3.5	2.4	2.1	1.6	1.6	1.8	2.1	2.9	4.3	4.8
120°	3.5	3.5	2.4	1.8	1.6	1.3	1.6	1.8	2.9	4.6	4.8
122.5°	3.5	3.3	2.4	1.8	1.3	1.3	1.3	1.6	2.7	4.3	4.6
125°	3.3	3.3	2.1	1.6	1.3	1.1	1.3	1.6	2.9	4.3	4.6
127.5°	3.3	2.9	2.1	1.6	1.1	1.1	1.3	1.3	2.7	4.1	4.3
130°	3.3	2.9	2.1	1.3	1.1	1.1	1.1	1.3	2.7	3.8	4.1
132.5°	2.7	2.7	1.8	1.3	1.1	0.8	1.1	1.1	2.1	3.3	3.5
135°	2.7	2.4	1.8	1.3	1.1	0.8	0.8	1.1	2.1	2.9	2.9
137.5°	2.4	2.1	1.8	1.3	0.8	0.8	0.5	0.8	1.8	2.4	2.7
140°	2.1	2.1	1.6	1.3	0.8	0.5	0.5	0.8	1.3	1.8	2.1
142.5°	2.1	2.1	1.8	1.3	0.8	0.5	0.5	0.5	1.1	1.6	1.6
145°	1.8	1.8	1.6	1.1	0.5	0.2	0.2	0.5	0.8	1.1	1.3
147.5°	1.8	1.8	1.6	1.1	0.5	0.2	0.2	0.5	0.8	1.1	1.1
150°	1.6	1.6	1.3	0.8	0.2	0.0	0.0	0.2	0.5	0.8	0.8
152.5°	1.1	1.1	0.8	0.5	0.0	0.0	0.0	0.2	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
157.5°	0.2	0.2	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: P240955

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	5.1	5.1	5.1	5.1	5.1	5.1	4.8	4.8	4.8	4.8	4.8
5°	4.6	4.6	4.8	4.8	4.8	4.8	4.8	5.1	5.4	5.4	5.7
7.5°	5.1	5.1	4.8	4.8	5.1	5.7	9.2	19.3	36.6	33.9	33.7
10°	8.0	8.0	7.2	6.8	7.2	26.3	41.4	39.3	33.1	32.2	31.1
12.5°	51.1	47.5	38.5	24.1	35.2	33.4	38.7	45.5	59.1	62.1	60.0
15°	51.4	53.5	57.8	62.6	79.3	35.2	68.3	83.6	89.3	89.3	91.1
17.5°	89.3	96.2	74.0	66.6	79.0	96.8	76.4	84.9	84.1	84.3	82.0
20°	145.1	131.2	144.7	129.8	88.7	108.2	95.2	91.1	122.8	146.2	146.2
22.5°	143.7	152.4	150.6	149.1	156.1	96.2	121.5	131.9	136.8	130.7	140.1
25°	240.1	230.9	218.3	148.9	149.6	133.9	131.2	123.1	133.9	144.3	142.1
27.5°	251.1	253.2	229.3	221.8	157.0	150.6	123.7	143.2	156.1	157.0	155.5
30°	342.7	347.0	270.6	204.4	176.4	137.3	144.7	138.2	144.3	151.7	155.5
32.5°	362.6	356.1	299.0	230.1	172.8	145.5	133.1	138.2	161.6	161.6	160.2
35°	386.2	381.5	308.0	218.5	188.5	136.0	123.1	137.6	144.3	156.1	157.0
37.5°	433.9	431.1	338.1	218.0	167.7	128.5	135.5	139.0	141.2	143.7	141.4
40°	465.3	444.5	347.3	227.7	162.4	148.9	141.2	130.9	132.8	126.0	123.1
42.5°	524.5	489.7	356.1	221.2	158.3	164.2	131.2	129.3	124.8	117.8	117.8
45°	584.6	540.3	367.9	208.0	152.6	159.4	135.2	132.2	128.2	127.2	124.8
47.5°	645.9	586.2	366.1	216.4	171.2	149.1	169.4	142.1	122.3	132.8	131.9
50°	746.7	661.0	367.7	200.0	170.7	146.5	169.6	134.7	130.9	139.0	139.8
52.5°	829.0	711.9	390.0	190.5	165.3	169.6	160.5	163.2	154.3	151.9	154.8
55°	927.4	776.9	375.6	179.3	161.0	159.9	188.9	164.2	156.1	164.0	164.8
57.5°	1050.7	867.4	378.7	161.0	162.4	154.0	184.9	183.9	178.9	175.3	173.9
60°	1122.2	896.5	348.6	171.7	157.3	169.9	196.2	190.5	165.1	191.6	195.9
62.5°	1178.4	941.6	274.7	169.9	174.7	162.0	180.1	186.0	173.9	194.1	196.4
65°	1192.1	939.2	210.5	174.5	172.8	180.1	213.2	182.8	151.9	154.8	156.1
67°	1173.3	917.9	170.7	166.1	175.3	173.4	176.4	157.0	140.3	143.2	145.5
67.5°	1162.5	900.8	161.8	165.5	181.2	173.0	172.8	151.1	137.1	140.8	141.7
70°	1062.5	806.9	135.5	163.5	179.5	157.3	161.6	133.1	121.0	122.3	122.8
72.5°	909.9	647.6	129.3	162.6	176.4	131.2	124.2	108.8	102.9	101.1	98.4
75°	698.3	446.3	127.8	146.7	144.9	99.2	99.4	90.5	91.1	87.1	85.4
77.5°	420.6	249.9	108.6	124.2	108.6	75.8	82.3	80.5	82.5	78.2	75.5
80°	201.6	122.1	85.8	91.3	76.6	59.4	70.2	73.1	73.6	67.5	64.5
82.5°	86.4	63.2	58.0	57.3	54.5	46.0	56.7	59.6	60.2	56.5	45.2
85°	50.8	43.0	40.1	38.5	37.9	28.5	40.5	48.1	48.1	39.8	34.4
87.5°	31.6	31.4	28.2	28.2	29.6	20.2	28.0	33.1	31.1	23.6	18.8
90°	15.1	16.2	16.9	17.2	20.2	11.3	18.0	19.1	18.0	12.9	9.2
92.5°	12.1	13.6	14.7	15.3	18.2	9.8	16.2	17.2	16.4	12.9	9.2
95°	10.0	12.3	14.7	14.5	15.3	7.5	14.2	15.7	15.1	11.3	7.7
97.5°	8.0	10.0	12.1	12.1	13.9	6.4	13.2	14.7	14.5	10.2	7.5
100°	7.2	8.8	10.7	10.5	12.3	5.1	11.8	12.9	12.7	8.3	6.8
102.5°	6.4	7.2	8.3	8.3	9.2	4.3	8.8	10.0	9.4	7.0	6.8
105°	5.9	6.2	5.9	5.7	5.9	3.8	5.7	6.4	5.7	5.4	5.4
107.5°	5.7	5.7	4.8	4.6	4.3	3.3	4.1	4.3	3.8	4.8	5.4



REPORT NUMBER: P240955

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.7	5.4	4.3	4.1	3.5	2.9	3.3	3.3	3.3	4.8	5.1
112.5°	5.4	5.4	4.1	3.5	3.3	2.7	2.7	2.4	2.9	4.8	5.4
115°	5.4	5.1	3.8	3.3	2.7	2.4	2.1	2.1	2.7	4.8	5.4
117.5°	5.4	5.1	3.8	2.9	2.7	2.1	1.8	1.8	2.7	4.8	5.4
120°	5.4	5.4	3.8	2.7	2.4	2.1	1.8	1.8	2.7	4.6	5.1
122.5°	5.1	5.1	3.5	2.7	2.1	1.8	1.6	1.6	2.7	4.6	4.8
125°	4.8	4.8	3.5	2.4	1.8	1.6	1.6	1.6	2.7	4.3	4.8
127.5°	4.6	4.6	3.3	2.1	1.6	1.6	1.3	1.3	2.7	4.3	4.6
130°	4.3	4.3	2.9	1.8	1.6	1.3	1.1	1.3	2.7	4.1	4.3
132.5°	3.8	3.8	2.7	1.6	1.3	1.1	1.1	1.1	2.4	3.8	4.1
135°	3.3	3.3	2.4	1.6	1.3	1.1	0.8	1.1	2.1	3.3	3.5
137.5°	2.9	2.9	2.1	1.3	1.1	0.8	0.8	1.1	2.1	2.9	3.3
140°	2.1	2.1	1.6	1.1	0.8	0.8	0.5	0.8	1.8	2.4	2.7
142.5°	1.6	1.6	1.3	1.1	0.8	0.5	0.5	0.8	1.6	2.1	2.1
145°	1.3	1.3	1.1	0.8	0.8	0.5	0.2	0.5	1.3	1.8	1.8
147.5°	1.1	1.1	1.1	0.8	0.5	0.2	0.2	0.2	0.8	1.3	1.3
150°	0.8	0.8	0.8	0.8	0.5	0.0	0.0	0.0	0.5	0.8	0.8
152.5°	0.5	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.2	0.2
155°	0.2	0.5	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	0.2	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)