

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: P240578

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T2U-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3004.6 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

Input Watts (W): 31
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



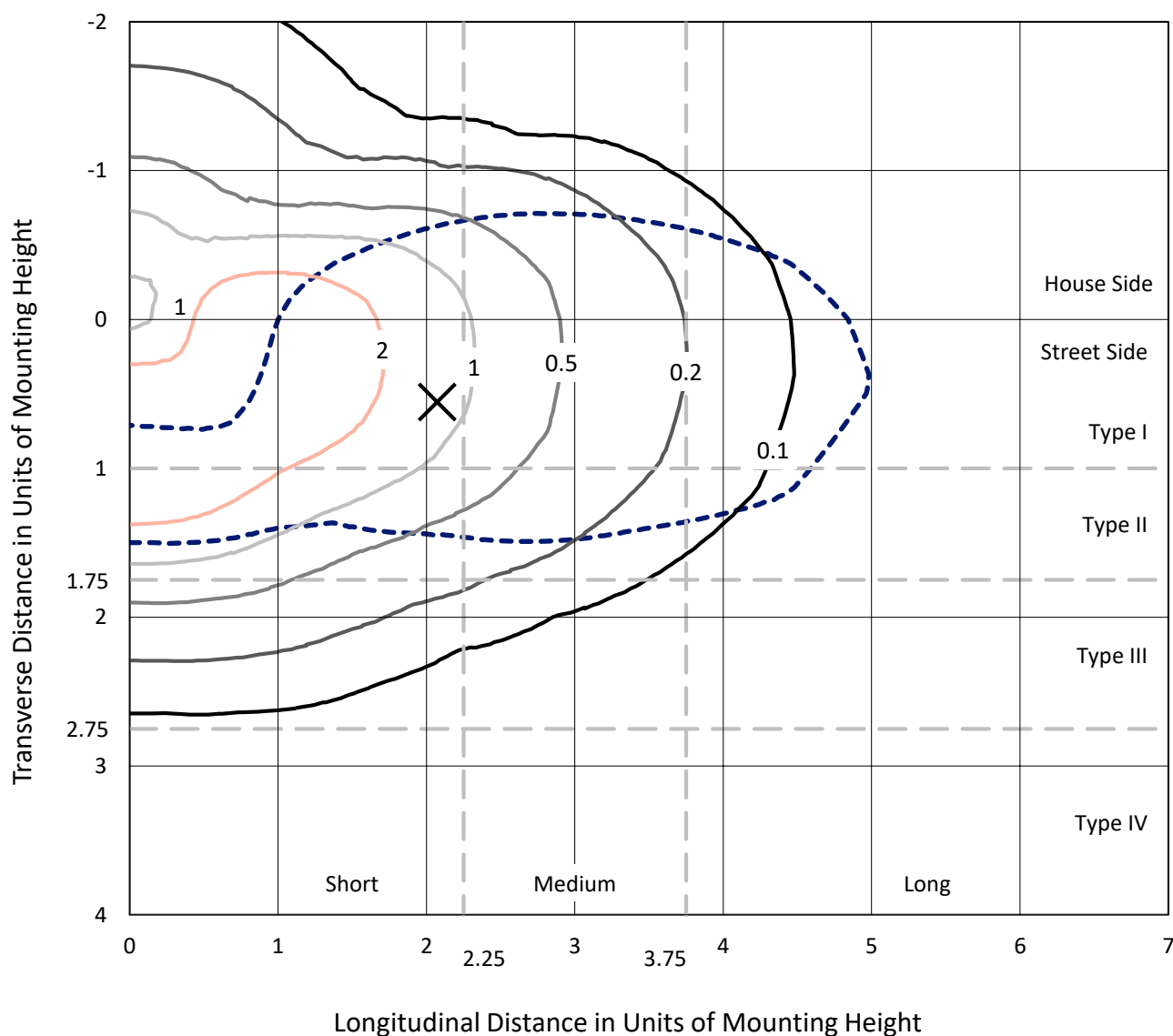
REPORT NUMBER: P240578

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

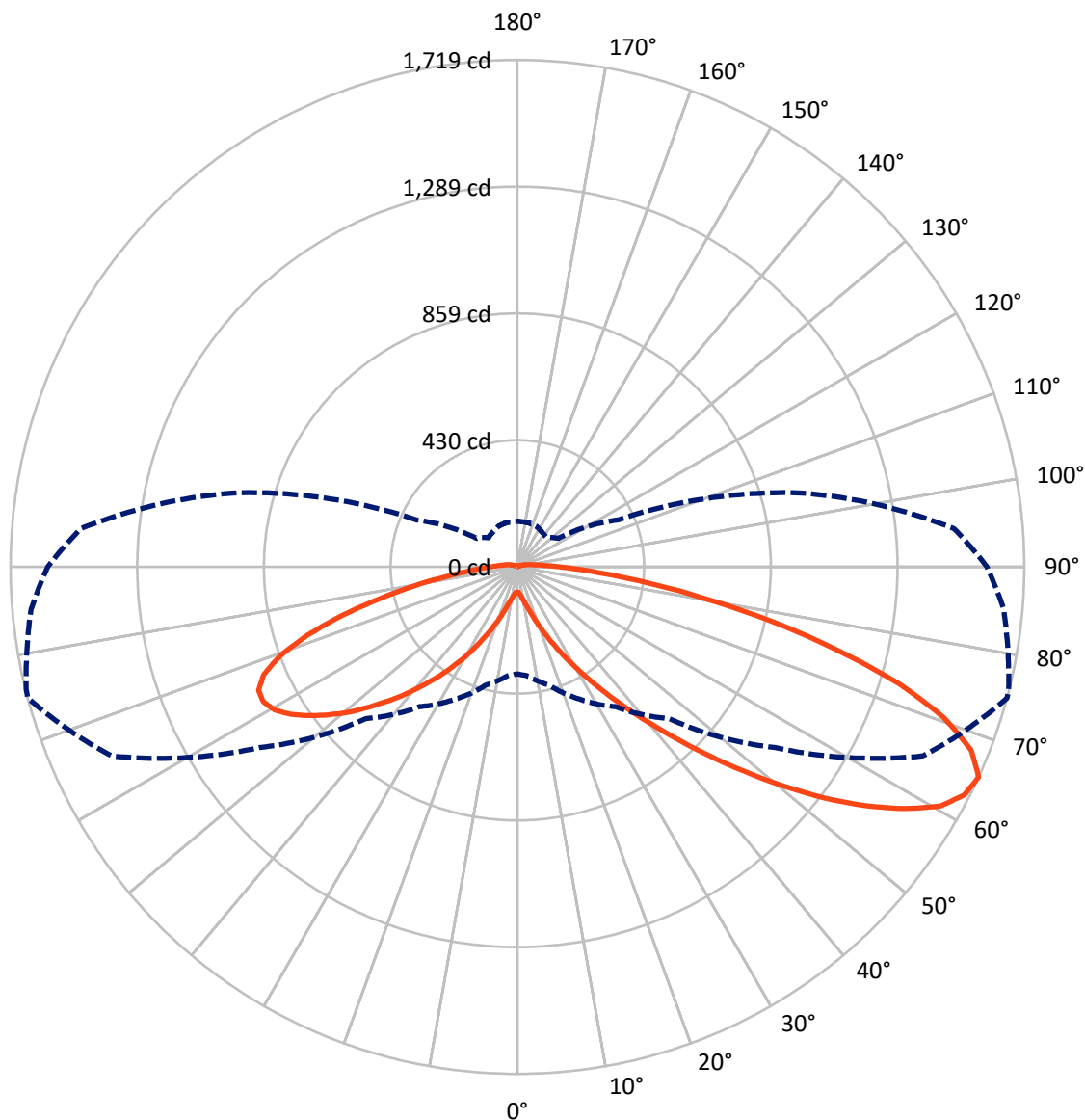


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P240578

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P240578

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7030

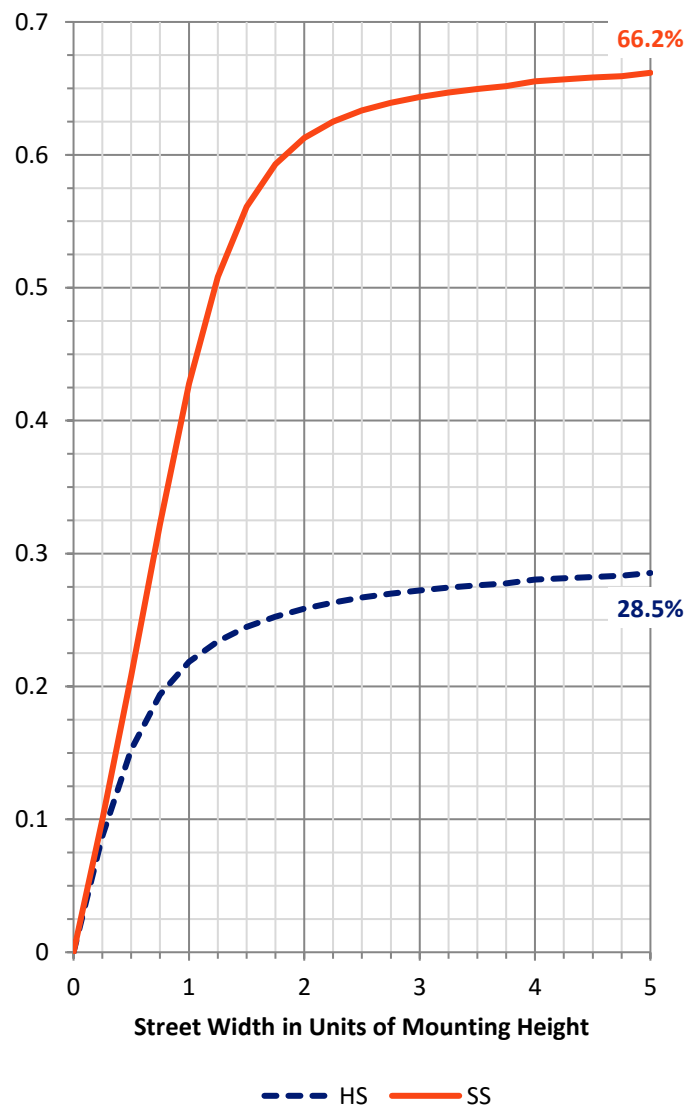
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.2	53.2	940.4
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	2016.4	47.9	2064.3
	% Fixture	67.1	1.6	68.7
Total	Lumens	2903.6	101.1	3004.6
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.3
10°-20°	43.5	1.4
20°-30°	126.7	4.2
30°-40°	284.2	9.5
40°-50°	505.8	16.8
50°-60°	687.3	22.9
60°-70°	667.4	22.2
70°-80°	420.7	14.0
80°-90°	158.6	5.3
90°-100°	54.0	1.8
100°-110°	24.4	0.8
110°-120°	11.8	0.4
120°-130°	6.2	0.2
130°-140°	3.2	0.1
140°-150°	1.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2903.6	96.6
0°-180°	3004.6	100.0

Coefficient of Utilization



REPORT NUMBER: P240578

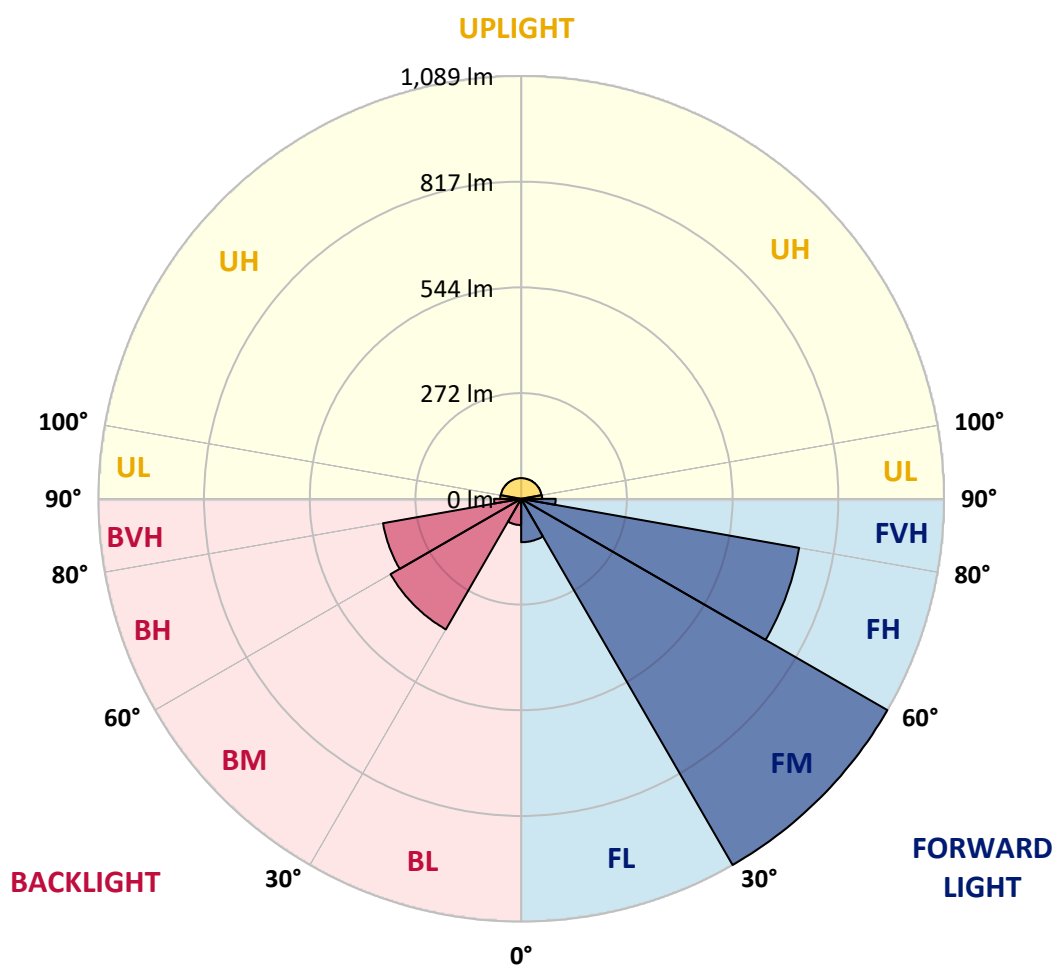
CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.9	3.7			
FM	(30°-60°)	1088.9	36.2			
FH	(60°-80°)	726.8	24.2			G1/1800
FVH	(80°-90°)	88.8	3.0			G1/100
BL	(0°-30°)	67.7	2.3	B0/110		
BM	(30°-60°)	388.3	12.9	B1/1000		
BH	(60°-80°)	361.3	12.0	B1/500		G1/500
BVH	(80°-90°)	69.9	2.3			G1/100
UL	(90°-100°)	54.0	1.8		U3/500	
UH	(100°-180°)	53.2	1.8		U3/500	

BUG Rating: B1-U3-G1

Type II Short





REPORT NUMBER: P240578

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
2.5°	93.0	92.6	92.6	92.6	91.8	91.0	89.9	89.1	88.1	87.6	87.3
5°	102.7	102.7	102.3	101.9	101.2	99.3	97.5	95.9	94.1	93.8	92.3
7.5°	118.1	117.8	117.5	115.5	114.4	111.8	108.7	106.5	103.1	103.1	100.8
10°	138.4	137.7	136.6	134.7	130.6	127.2	123.8	119.6	116.3	116.0	112.5
12.5°	162.6	162.6	161.0	157.4	152.0	147.2	141.5	137.0	132.4	132.1	129.0
15°	195.7	196.0	191.2	185.5	178.0	170.5	163.4	159.2	153.9	155.0	150.9
17.5°	236.6	235.9	231.8	220.4	208.1	198.3	190.0	185.5	181.4	181.7	178.7
20°	288.2	287.5	280.4	265.3	245.0	230.3	220.4	217.5	215.2	214.1	211.1
22.5°	351.9	348.1	333.8	314.2	289.7	268.7	258.2	253.6	252.8	253.3	250.2
25°	423.0	421.4	403.3	372.1	340.6	313.5	297.3	296.5	297.6	295.8	295.8
27.5°	509.4	505.4	484.3	441.0	395.8	363.5	344.7	342.8	348.1	346.6	344.2
30°	610.8	604.3	575.7	520.4	462.5	419.2	397.3	397.3	403.0	403.0	402.3
32.5°	716.5	715.3	671.0	606.2	537.8	480.5	461.7	458.7	464.4	467.4	463.6
35°	835.4	826.8	775.5	702.2	613.7	550.8	527.6	531.8	536.3	536.6	530.6
37.5°	956.6	948.0	889.2	798.4	695.4	627.7	603.5	606.6	613.7	613.7	605.9
40°	1060.4	1051.0	993.3	898.9	785.7	713.1	687.5	696.2	701.0	703.0	690.1
42.5°	1142.5	1135.6	1084.1	987.8	872.7	798.9	782.3	796.6	801.5	805.2	786.8
45°	1188.3	1182.7	1147.0	1060.1	945.6	884.7	887.7	905.0	914.4	910.2	890.4
47.5°	1195.6	1191.0	1171.0	1104.8	1012.7	967.1	995.7	1021.7	1036.0	1036.4	1002.5
50°	1151.0	1153.0	1153.3	1115.3	1050.2	1034.0	1096.5	1154.9	1165.8	1159.8	1119.9
52.5°	1065.0	1063.7	1085.6	1085.6	1057.0	1075.4	1181.2	1285.4	1300.5	1299.0	1243.7
55°	937.0	938.1	978.8	1010.7	1021.2	1084.1	1250.5	1403.6	1428.4	1426.2	1365.2
57.5°	777.8	788.8	838.8	900.1	948.0	1047.2	1282.3	1505.1	1545.8	1546.2	1472.5
60°	623.1	634.5	692.8	771.4	840.6	976.1	1261.0	1557.9	1647.1	1642.9	1564.7
62.5°	476.1	487.8	543.8	633.2	713.8	862.5	1187.9	1568.8	1700.8	1698.2	1630.9
65°	362.4	370.0	415.0	493.8	578.4	726.7	1067.9	1516.8	1718.5	1716.7	1655.4
67.5°	271.0	274.3	317.2	380.8	454.2	587.9	901.9	1392.0	1659.8	1661.8	1627.5
70°	208.4	210.8	242.0	297.3	351.9	459.4	730.7	1211.6	1536.4	1541.3	1540.2
72.5°	165.5	169.0	193.8	234.1	273.5	348.1	565.2	980.3	1353.5	1363.7	1394.1
75°	136.6	140.4	159.2	188.9	217.5	265.0	411.0	752.2	1112.7	1134.1	1201.9
77.5°	112.9	116.7	132.4	155.8	173.5	202.4	301.0	556.1	874.2	883.2	972.7
80°	92.6	95.9	110.3	128.3	141.2	158.1	219.4	390.6	637.4	648.8	736.1
82.5°	73.8	76.8	89.9	104.6	115.2	126.8	162.6	267.5	444.0	452.4	509.9
85°	56.9	59.9	71.1	83.9	93.0	102.3	124.5	186.3	293.9	303.6	345.8
87.5°	42.5	45.2	54.5	65.4	74.9	82.8	95.9	128.7	196.0	204.4	224.3
90°	31.2	33.1	41.4	49.7	58.4	66.9	75.3	94.1	130.6	134.0	147.9
92.5°	23.4	24.5	31.2	38.4	46.7	54.2	59.4	69.3	91.8	92.3	101.9
95°	17.3	18.5	24.0	30.1	37.2	44.4	48.9	53.9	67.3	68.5	74.6
97.5°	13.8	14.3	19.2	24.5	30.5	36.5	40.3	42.9	51.6	52.7	56.9
100°	11.7	12.0	16.2	20.6	26.0	31.2	33.9	35.0	40.7	41.7	44.8
102.5°	10.2	10.2	13.8	18.0	22.6	26.3	28.2	29.0	32.8	32.8	35.0
105°	9.1	9.1	12.0	15.9	19.5	23.0	24.0	24.0	25.5	26.0	27.1
107.5°	8.3	8.3	10.9	14.3	17.3	20.0	20.6	20.0	20.3	20.3	21.1
110°	7.5	7.5	9.4	12.8	15.4	17.3	17.7	16.9	15.9	15.9	16.6



REPORT NUMBER: P240578

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	6.8	7.1	8.6	11.3	13.5	15.4	15.4	14.3	12.4	12.4	13.2
115°	6.4	6.4	7.8	10.2	12.0	13.5	13.5	12.0	10.2	9.9	10.5
117.5°	6.0	6.0	6.8	9.1	10.9	12.0	12.0	10.2	8.3	8.3	9.1
120°	5.7	5.7	6.4	8.3	9.9	10.9	10.5	9.1	7.1	7.1	7.8
122.5°	5.7	5.7	6.0	7.5	8.6	9.4	9.1	7.5	6.0	6.0	6.8
125°	5.3	5.3	5.7	6.8	7.8	8.6	7.8	6.4	5.7	5.7	6.0
127.5°	5.3	5.3	5.3	6.0	7.1	7.5	7.1	5.7	4.9	4.9	5.7
130°	4.9	4.9	5.3	5.7	6.4	6.8	6.0	4.9	4.5	4.5	5.3
132.5°	4.9	4.9	4.9	4.9	5.3	5.7	4.9	3.8	4.2	4.2	4.5
135°	4.5	4.5	4.5	4.5	4.9	4.9	4.2	3.4	3.8	3.8	4.2
137.5°	4.2	4.2	4.2	4.2	4.2	3.8	3.4	3.1	3.4	3.4	3.8
140°	3.8	3.8	3.8	3.4	3.1	3.1	2.6	2.3	2.6	2.6	3.1
142.5°	3.4	3.4	3.4	3.1	2.6	2.3	1.8	1.8	2.3	2.3	2.6
145°	3.1	3.1	2.6	2.3	1.8	1.5	1.1	1.5	1.8	1.8	2.3
147.5°	2.3	2.3	2.3	1.8	1.1	0.8	0.8	1.1	1.5	1.5	1.5
150°	1.8	1.8	1.8	1.5	0.8	0.3	0.3	0.8	0.8	0.8	1.1
152.5°	1.1	1.1	1.1	1.1	0.3	0.0	0.0	0.3	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.3
160°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0
162.5°	0.0	0.0	0.0	0.3	0.3	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: P240578

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
2.5°	87.0	86.6	85.8	85.0	84.2	83.6	82.8	82.4	81.6	81.6	81.6
5°	91.4	90.3	88.8	87.3	85.8	84.6	83.6	82.4	81.6	81.3	80.9
7.5°	99.8	98.3	95.6	93.3	90.6	88.4	86.6	85.0	84.2	83.9	83.9
10°	111.0	109.2	105.8	101.2	98.3	94.8	91.8	89.9	88.4	88.1	87.6
12.5°	126.0	124.2	118.5	113.6	107.9	102.7	99.3	97.1	95.9	95.6	95.6
15°	147.5	145.2	136.2	128.0	118.9	112.5	107.9	106.1	106.5	107.6	106.5
17.5°	174.3	170.9	160.3	146.7	133.2	123.5	119.3	119.6	121.2	122.3	122.0
20°	207.4	202.4	187.8	168.6	150.1	137.0	132.9	133.2	135.1	138.4	138.1
22.5°	246.1	238.6	219.7	193.8	167.8	152.8	145.2	146.4	150.6	153.9	153.9
25°	288.7	281.9	255.1	220.4	188.2	166.0	156.6	158.1	164.1	167.8	169.0
27.5°	339.0	328.6	295.4	250.2	207.4	177.6	166.0	166.7	174.3	179.0	179.8
30°	392.9	380.4	339.0	279.9	224.3	186.7	171.6	173.0	181.4	187.1	188.2
32.5°	453.4	438.7	384.6	311.2	240.1	191.9	174.6	176.1	184.7	191.2	191.9
35°	520.8	499.4	433.5	339.8	250.6	193.8	174.6	176.5	184.7	191.2	192.3
37.5°	589.2	565.2	481.3	367.2	257.0	192.3	172.0	174.3	181.7	187.8	188.9
40°	669.1	638.2	533.6	389.8	259.3	188.2	167.5	170.1	176.5	181.4	182.1
42.5°	760.1	716.5	588.6	409.0	255.8	182.9	162.9	166.0	171.2	174.6	175.1
45°	854.6	801.9	642.0	424.0	251.0	176.5	158.4	161.8	166.3	167.0	167.8
47.5°	956.6	897.9	700.3	433.1	242.3	169.7	155.0	158.4	161.4	161.0	161.4
50°	1069.4	997.2	759.8	436.9	232.5	164.1	152.4	156.1	158.4	156.6	156.6
52.5°	1179.7	1105.9	814.0	438.3	221.7	158.8	150.6	155.0	156.1	154.3	154.3
55°	1297.1	1206.4	868.2	434.2	210.8	154.7	149.8	154.7	155.3	152.8	152.8
57.5°	1405.5	1313.7	917.0	427.9	200.6	150.9	148.6	154.3	155.0	152.8	153.2
60°	1505.1	1404.7	955.0	417.4	189.7	147.2	147.9	154.3	155.0	153.5	154.3
62.5°	1566.1	1464.9	975.0	400.8	179.0	143.7	146.7	153.5	155.0	153.9	154.7
65°	1592.5	1486.4	972.4	377.1	169.0	139.7	144.5	152.0	153.9	153.9	154.7
67.5°	1572.6	1466.8	933.9	346.6	159.5	135.5	141.5	149.0	151.7	152.4	153.5
70°	1498.4	1386.0	856.8	308.2	149.3	131.0	137.7	144.9	147.9	149.3	150.1
72.5°	1350.6	1250.0	747.4	269.8	138.9	125.3	132.1	138.9	142.2	144.1	144.1
75°	1162.7	1062.3	615.2	229.1	129.0	118.9	125.3	131.0	134.7	136.6	135.8
77.5°	935.5	841.8	477.9	187.8	118.5	111.3	117.5	122.3	125.3	126.8	124.9
80°	693.1	633.2	359.0	155.0	107.9	102.7	107.6	111.8	115.2	114.7	113.3
82.5°	491.4	435.0	251.4	128.7	97.5	93.3	97.1	99.8	101.9	101.2	98.6
85°	327.3	290.5	177.6	105.0	86.6	83.1	85.4	87.0	88.1	86.2	84.2
87.5°	212.9	189.7	128.0	86.6	74.9	72.6	73.8	74.1	74.6	72.6	70.4
90°	139.2	129.5	95.2	71.4	64.4	62.9	62.9	61.3	61.7	59.4	57.3
92.5°	98.3	92.3	74.1	58.7	54.9	53.9	53.4	51.6	51.2	48.9	47.4
95°	73.4	70.7	59.9	49.7	46.7	46.3	45.6	43.7	42.2	39.9	39.2
97.5°	57.3	56.0	49.2	42.5	40.3	39.6	39.2	36.9	35.7	33.6	32.8
100°	45.6	45.6	41.4	36.5	34.6	34.2	33.9	31.5	30.5	28.2	27.9
102.5°	36.5	36.9	34.6	31.5	30.1	29.4	28.6	27.1	25.2	23.7	23.7
105°	28.6	29.4	28.6	26.8	26.0	25.2	24.5	23.0	21.1	19.5	19.5
107.5°	22.6	23.4	23.4	23.0	21.9	21.5	21.1	19.2	17.7	16.2	16.2
110°	17.3	18.5	19.2	19.2	19.2	18.5	17.7	16.6	14.6	13.5	13.5



REPORT NUMBER: P240578

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13.8	14.6	15.9	16.2	16.2	16.2	15.4	13.5	12.0	11.3	11.7
115°	11.3	12.0	13.2	13.8	13.8	13.8	12.8	11.7	10.2	9.9	9.9
117.5°	9.4	10.2	10.9	12.0	12.0	12.0	11.3	9.9	8.3	8.3	8.3
120°	8.3	8.6	9.9	10.2	10.5	10.5	9.9	8.3	7.1	7.1	7.5
122.5°	7.1	7.5	8.3	9.1	9.4	9.1	8.3	6.8	6.0	6.4	6.4
125°	6.4	6.8	7.1	7.8	8.3	7.8	7.1	5.7	5.3	5.7	5.7
127.5°	6.0	6.0	6.4	6.8	7.1	6.8	6.0	4.9	4.5	5.3	5.3
130°	5.3	5.7	5.7	6.0	6.0	6.0	5.3	4.2	4.2	4.5	4.5
132.5°	4.9	4.9	4.9	5.3	5.3	4.9	4.2	3.4	3.8	4.2	4.2
135°	4.2	4.5	4.5	4.5	4.5	4.2	3.4	3.1	3.4	3.8	3.8
137.5°	3.8	3.8	3.8	3.8	3.8	3.4	3.1	2.6	3.1	3.1	3.1
140°	3.1	3.4	3.4	3.1	3.1	2.6	2.3	1.8	2.3	2.6	2.6
142.5°	2.6	2.6	2.6	2.6	2.3	1.8	1.5	1.5	1.8	1.8	1.8
145°	2.3	2.3	2.3	1.8	1.5	1.5	1.1	1.1	1.5	1.5	1.8
147.5°	1.5	1.5	1.5	1.5	1.1	1.1	0.8	0.8	1.1	1.1	1.1
150°	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.3	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.8	0.8	0.3	0.3	0.3	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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)