

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: P266265

Luminaire Tested: **UTLD-AF24-20-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
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-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1906.9 lumens
Efficiency: N/A
Efficacy: 90.8 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



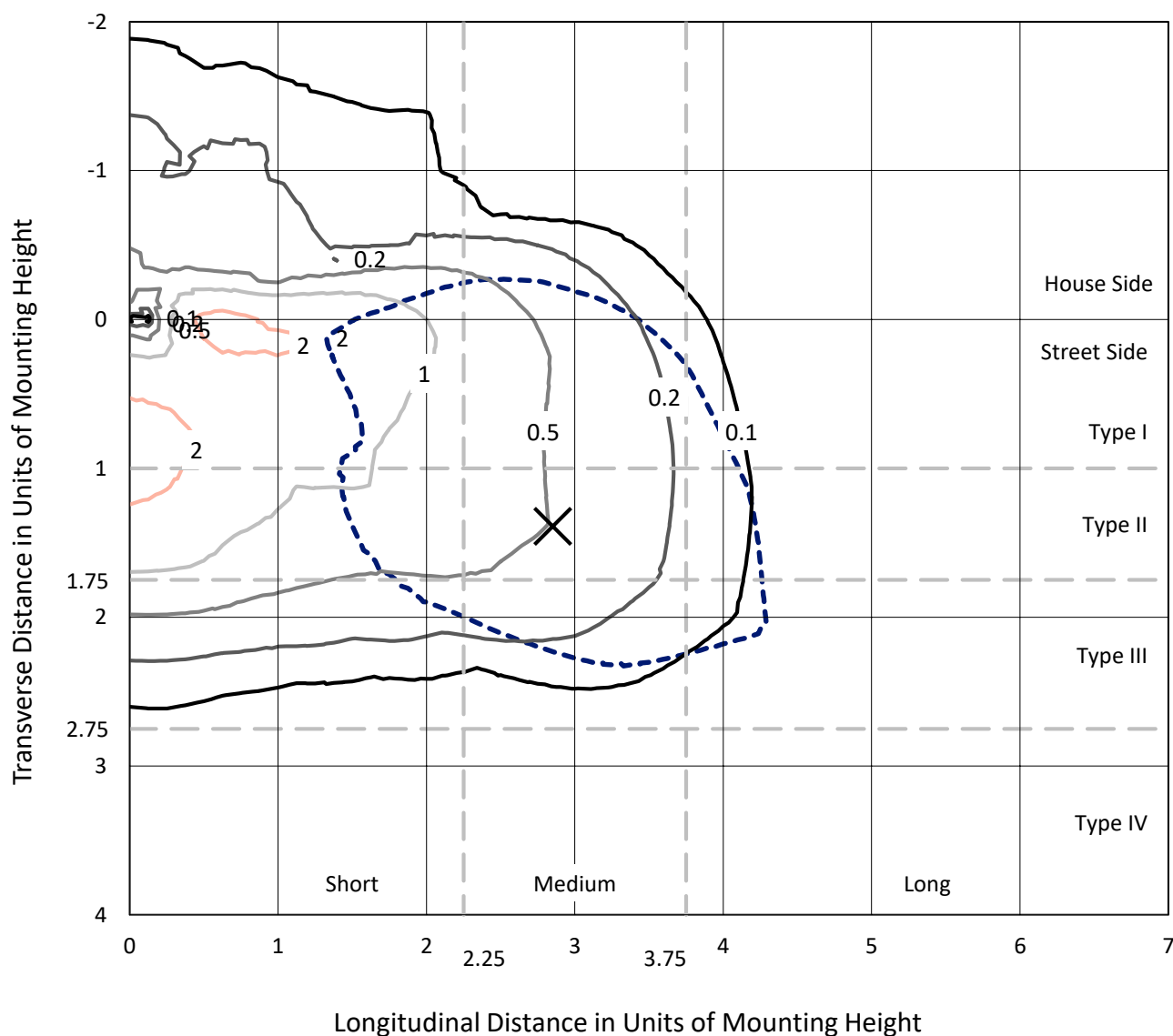
REPORT NUMBER: P266265

CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

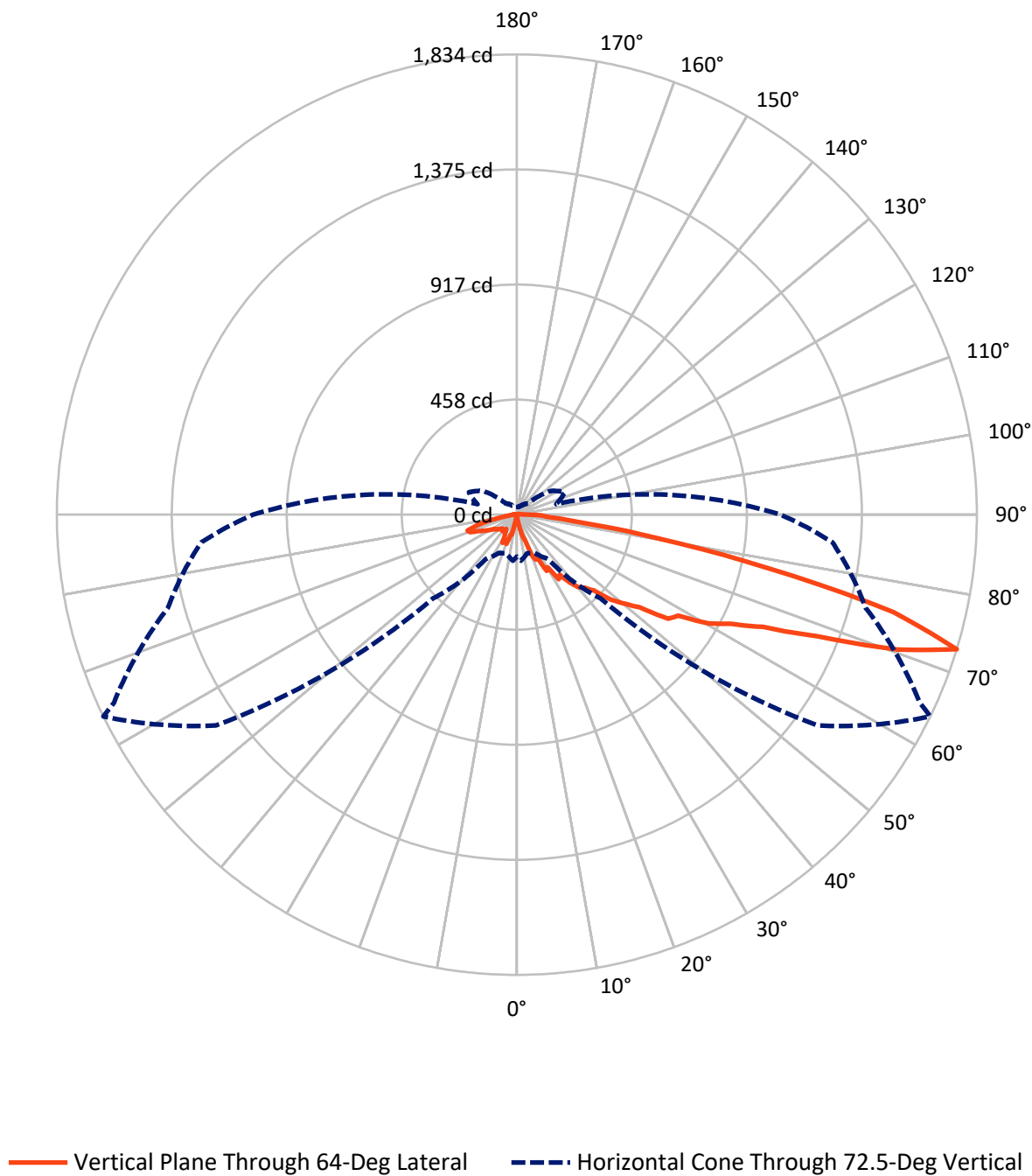


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P266265

CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266265

CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL-7027

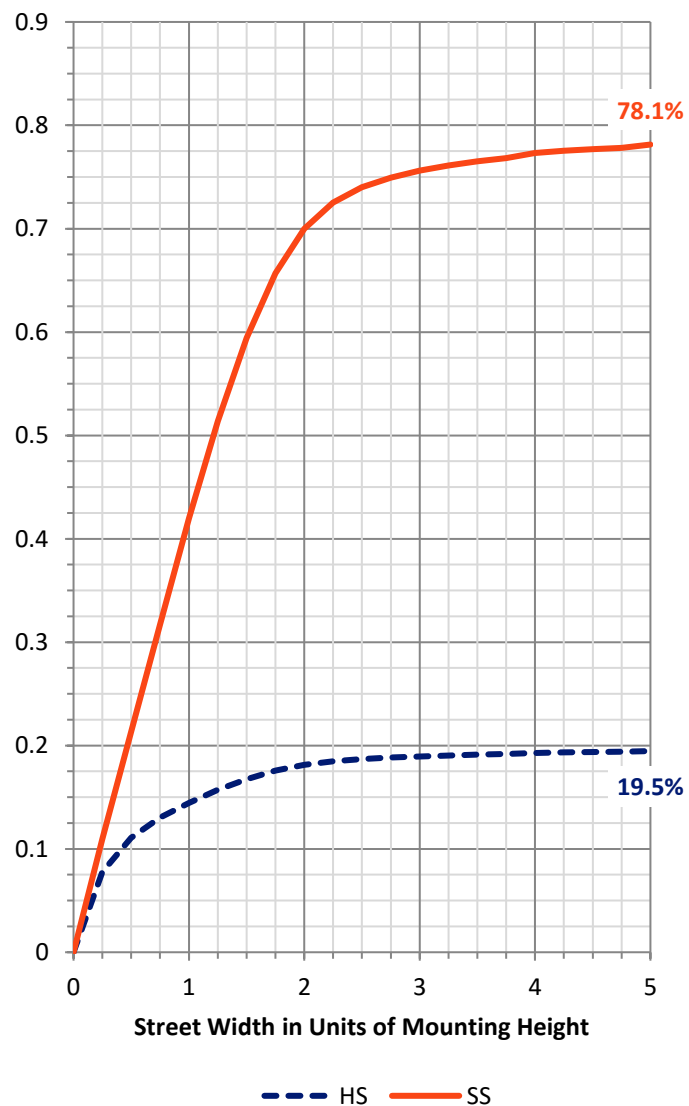
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	377.5	11.7	389.2
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	1505.6	12.1	1517.7
	% Fixture	79.0	0.6	79.6
Total	Lumens	1883.1	23.9	1906.9
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.1
10°-20°	25.5	1.3
20°-30°	74.9	3.9
30°-40°	148.6	7.8
40°-50°	256.4	13.4
50°-60°	414.5	21.7
60°-70°	525.4	27.5
70°-80°	376.4	19.7
80°-90°	59.0	3.1
90°-100°	11.9	0.6
100°-110°	5.3	0.3
110°-120°	2.7	0.1
120°-130°	2.0	0.1
130°-140°	1.2	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°	1883.1	98.7
0°-180°	1906.9	100.0

Coefficient of Utilization



REPORT NUMBER: P266265

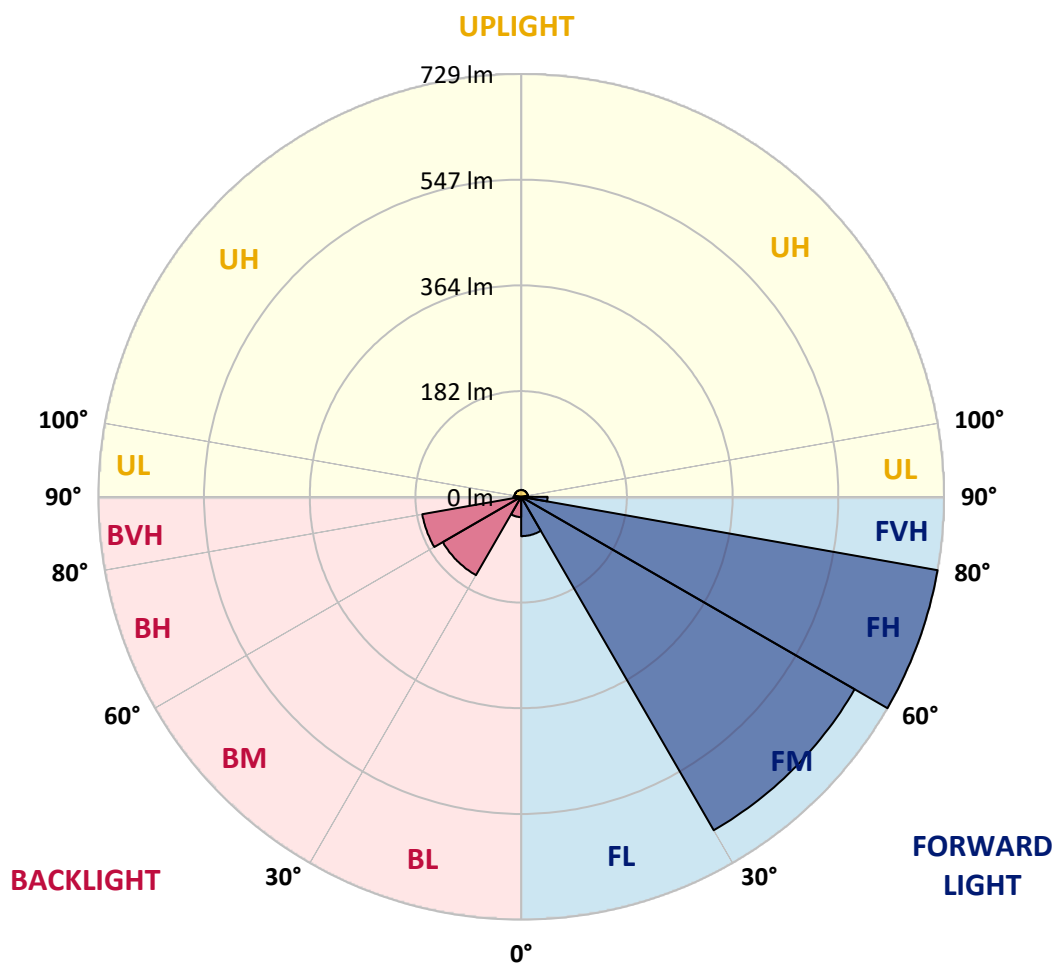
CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.8	3.6			
FM	(30°-60°)	663.6	34.8			
FH	(60°-80°)	728.8	38.2			G1/1800
FVH	(80°-90°)	45.4	2.4			G1/100
BL	(0°-30°)	34.9	1.8	B0/110		
BM	(30°-60°)	156.0	8.2	B0/220		
BH	(60°-80°)	173.0	9.1	B1/500		G1/500
BVH	(80°-90°)	13.6	0.7			G1/100
UL	(90°-100°)	11.9	0.6		U2/50	
UH	(100°-180°)	11.7	0.6		U2/50	

BUG Rating: B1-U2-G1

Type III Medium



REPORT NUMBER: P266265

CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	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°	13.2	11.9	12.2	10.9	9.2	7.5	6.3	5.6	5.6	5.3	4.9
5°	46.2	47.2	52.9	44.5	40.3	52.6	14.7	8.4	7.9	5.6	4.6
7.5°	61.5	64.5	46.2	38.4	36.0	57.9	43.2	23.6	19.6	7.2	5.1
10°	116.6	108.7	73.4	80.2	74.6	47.6	31.6	32.3	29.7	11.9	8.3
12.5°	104.4	105.6	107.9	98.1	100.9	74.9	38.4	63.1	67.4	75.7	71.2
15°	121.7	116.6	98.1	106.7	101.7	118.2	99.5	92.7	101.9	104.8	87.1
17.5°	165.2	161.5	187.7	128.0	93.0	133.0	118.2	108.4	103.0	115.0	138.9
20°	151.9	152.2	163.0	144.6	150.1	122.3	119.0	175.1	210.1	199.2	193.7
22.5°	228.7	221.6	184.2	143.6	158.6	140.2	167.4	195.3	185.4	180.9	195.3
25°	222.2	224.8	213.6	215.9	158.9	187.7	174.4	186.4	198.3	284.5	320.6
27.5°	273.1	258.2	245.2	223.6	218.7	176.4	168.5	253.3	260.1	285.1	300.7
30°	359.3	351.7	328.4	255.2	228.3	189.8	230.5	242.5	246.8	335.6	415.2
32.5°	456.1	428.6	360.9	333.9	248.4	234.2	217.1	306.6	301.7	372.1	419.7
35°	527.3	511.0	447.1	363.2	298.6	250.4	292.2	294.9	320.6	389.4	423.6
37.5°	512.4	517.0	490.7	433.4	328.6	270.7	316.1	343.3	345.8	421.8	448.9
40°	551.2	554.2	545.0	481.0	379.1	311.5	355.2	380.8	360.5	461.6	479.8
42.5°	573.9	578.5	596.1	550.0	427.7	356.2	416.5	398.4	380.5	496.0	545.7
45°	623.5	621.0	628.8	573.9	499.5	448.2	437.2	431.7	438.6	557.5	609.2
47.5°	692.6	702.1	663.9	585.5	553.6	470.8	495.4	506.0	531.6	637.2	673.6
50°	794.6	782.3	736.7	637.0	607.1	500.7	607.1	558.2	545.0	709.9	769.9
52.5°	836.1	828.1	763.5	658.6	640.3	557.5	625.8	613.5	609.0	810.4	877.3
55°	852.6	846.8	820.1	662.6	670.6	642.3	717.8	732.1	724.4	874.1	985.4
57.5°	809.2	818.7	820.7	678.3	691.1	652.2	862.6	759.3	814.7	954.0	1069.4
60°	750.3	750.8	776.2	676.3	710.1	715.4	893.9	879.9	931.5	996.3	1092.6
62.5°	604.6	621.7	663.9	662.8	736.7	797.5	1048.1	957.9	978.2	1039.2	1165.3
65°	401.1	410.3	461.4	549.6	689.4	863.0	1175.0	1079.0	1107.8	1121.1	1271.0
67.5°	239.3	250.6	257.9	351.1	575.6	875.9	1437.8	1294.2	1268.1	1245.0	1377.0
70°	200.0	207.4	186.4	210.1	351.7	795.4	1564.7	1609.0	1524.3	1412.6	1399.5
72.5°	167.5	184.1	158.9	168.1	214.2	472.1	1464.6	1833.9	1772.3	1440.5	1262.6
75°	124.3	147.3	132.3	150.9	197.7	242.5	1105.2	1549.7	1530.4	1248.6	937.1
77.5°	97.0	101.1	82.9	113.9	190.0	200.4	663.0	1021.6	1004.9	796.1	434.6
80°	68.1	69.8	65.4	59.4	146.9	187.8	335.8	566.4	531.2	247.3	144.4
82.5°	42.9	45.9	51.3	40.3	71.2	175.3	185.2	249.4	222.2	84.0	71.8
85°	25.8	28.2	31.6	28.2	33.2	133.9	143.4	128.2	117.0	51.3	45.5
87.5°	15.0	15.7	19.0	19.6	24.9	78.1	114.4	95.4	83.8	34.0	29.5
90°	10.4	9.6	9.6	10.2	12.8	34.0	56.1	33.2	33.5	17.8	15.5
92.5°	7.9	7.9	8.8	8.8	12.2	30.0	25.8	17.8	16.9	15.0	12.2
95°	6.1	6.5	6.5	6.9	8.4	9.2	12.8	13.2	13.2	13.6	10.9
97.5°	5.1	5.6	5.6	5.7	6.7	6.9	9.0	11.6	11.6	11.4	9.0
100°	4.9	5.1	4.9	4.9	5.6	5.3	7.2	9.9	10.4	9.9	7.7
102.5°	4.6	4.9	4.3	3.9	4.9	3.9	6.1	9.0	9.2	7.2	6.1
105°	4.6	4.6	3.9	3.1	3.9	3.1	5.1	6.3	6.3	5.1	5.7
107.5°	4.6	4.3	3.4	2.6	3.0	2.6	4.1	4.1	4.1	3.9	5.6
110°	4.1	3.9	3.1	2.4	2.2	2.2	3.0	3.0	3.0	3.4	5.6



REPORT NUMBER: P266265

CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	3.7	3.4	2.6	1.9	1.6	1.6	1.9	2.2	2.2	3.1	5.3
115°	3.1	3.1	2.4	1.9	1.4	1.4	1.6	1.9	1.9	3.0	5.1
117.5°	3.1	3.1	2.2	1.6	1.2	1.2	1.4	1.6	1.6	3.0	5.3
120°	3.1	3.1	2.2	1.4	1.2	1.0	1.2	1.4	1.4	3.1	5.6
122.5°	3.0	3.0	2.2	1.4	1.0	1.0	1.0	1.4	1.4	3.0	5.1
125°	3.0	3.0	1.9	1.4	1.0	1.0	1.0	1.2	1.4	3.1	5.1
127.5°	2.6	2.6	2.2	1.4	1.0	0.7	1.0	1.2	1.2	3.0	4.9
130°	2.6	2.6	1.9	1.2	0.7	0.7	0.7	1.0	1.2	2.6	4.3
132.5°	2.4	2.4	1.6	1.2	0.7	0.4	0.7	1.0	1.0	2.4	3.9
135°	2.4	2.4	1.9	1.2	0.7	0.4	0.7	1.0	1.0	2.2	3.4
137.5°	2.2	2.2	1.6	1.2	0.7	0.4	0.4	0.7	1.0	2.2	3.1
140°	2.2	2.2	1.9	1.4	0.7	0.4	0.4	0.7	0.7	1.6	2.4
142.5°	2.4	2.4	1.9	1.2	0.7	0.4	0.4	0.4	0.7	1.2	1.9
145°	2.2	2.2	1.6	1.2	0.7	0.2	0.2	0.4	0.7	1.2	1.6
147.5°	2.2	2.2	1.9	1.2	0.4	0.2	0.2	0.4	0.4	1.0	1.4
150°	1.9	1.9	1.4	0.7	0.2	0.0	0.2	0.4	0.4	0.7	1.2
152.5°	1.4	1.4	1.0	0.4	0.0	0.0	0.0	0.2	0.2	0.4	0.7
155°	0.7	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4
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: P266265

CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL-7027

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°	4.9	4.9	4.9	4.9	4.6	4.6	4.3	4.3	4.3	4.3	4.3
5°	4.6	4.6	4.6	4.3	4.1	3.9	4.1	3.9	3.9	3.9	3.9
7.5°	4.9	4.9	4.3	4.1	4.1	4.1	5.3	32.1	71.0	60.8	63.3
10°	9.0	8.4	7.2	6.1	5.6	31.9	60.8	55.8	42.5	35.6	36.4
12.5°	88.7	79.7	51.5	35.8	41.1	42.3	38.2	41.9	68.1	62.3	62.5
15°	88.7	90.8	74.4	83.8	72.5	33.7	65.1	77.8	75.5	69.6	72.9
17.5°	149.7	148.7	92.7	85.2	70.0	70.7	61.4	53.4	49.4	48.8	49.4
20°	221.9	185.0	176.7	128.6	78.7	72.3	50.8	42.9	54.7	67.6	69.3
22.5°	195.3	195.3	158.6	115.0	97.2	61.9	55.2	54.7	65.7	64.9	68.1
25°	329.9	286.6	205.5	110.9	85.0	62.8	56.1	50.9	57.2	65.9	65.1
27.5°	304.3	282.2	203.0	133.3	66.7	68.4	51.7	50.2	64.5	69.3	69.8
30°	383.9	353.8	205.3	100.3	67.2	52.6	47.8	51.3	53.9	58.4	58.8
32.5°	397.7	360.0	197.0	90.3	70.7	50.8	48.5	48.2	54.7	63.1	63.7
35°	389.2	345.5	185.7	76.0	71.0	51.3	49.8	55.1	50.2	58.7	59.8
37.5°	447.1	352.8	167.5	71.0	65.1	52.6	65.1	52.6	52.5	55.1	55.5
40°	446.5	368.9	147.1	86.6	65.1	86.6	68.1	54.7	47.2	51.7	51.9
42.5°	482.4	378.1	128.9	89.3	70.2	100.4	63.5	53.4	56.1	58.8	61.9
45°	523.9	407.1	120.7	80.4	79.2	77.8	66.1	69.6	50.8	81.3	84.8
47.5°	580.8	444.3	109.7	78.7	107.4	78.2	126.0	64.7	55.8	96.4	98.3
50°	665.5	509.7	110.6	86.4	98.5	83.8	84.8	70.2	75.4	100.3	100.7
52.5°	755.7	564.6	104.1	95.4	96.8	102.9	90.3	105.0	74.1	96.4	96.4
55°	835.8	645.4	107.2	100.4	101.1	89.7	127.2	77.6	73.9	96.8	99.3
57.5°	939.9	731.8	128.6	105.0	103.8	95.6	98.3	96.1	87.0	98.5	99.9
60°	995.3	794.9	161.2	118.0	108.7	110.3	116.4	92.4	79.0	115.2	119.7
62.5°	1082.9	885.6	204.3	133.8	137.9	112.9	99.3	100.7	84.0	91.7	92.7
65°	1184.1	980.1	225.6	149.2	148.5	125.6	112.5	78.2	54.5	50.5	50.2
67.5°	1260.1	1016.5	206.4	166.8	185.2	120.6	77.3	55.5	42.0	39.5	40.3
70°	1211.2	933.2	176.7	200.1	187.3	93.5	66.7	44.1	36.0	33.7	35.0
72.5°	1050.7	754.0	162.2	211.3	164.4	63.1	49.8	38.8	32.3	30.3	30.6
75°	742.7	484.5	166.5	178.9	116.9	45.6	42.9	32.3	28.7	25.8	25.8
77.5°	326.3	207.7	130.7	128.9	74.9	36.2	36.4	26.8	24.9	22.2	22.2
80°	131.3	109.9	76.7	74.6	49.9	28.4	28.9	22.2	22.5	18.9	17.6
82.5°	69.6	62.8	42.7	40.1	35.8	22.0	20.5	19.0	18.9	15.5	13.6
85°	45.6	41.3	27.9	26.1	26.6	16.2	17.2	18.1	16.7	12.8	9.0
87.5°	28.2	27.9	19.9	18.9	19.9	11.6	14.1	14.7	14.1	9.6	5.7
90°	13.2	14.6	13.2	13.0	13.0	5.6	10.9	11.6	11.4	7.7	4.6
92.5°	10.4	11.9	12.2	12.5	12.5	5.7	11.4	12.0	11.6	7.9	5.1
95°	9.0	10.4	12.0	12.0	11.9	4.6	10.6	11.9	11.0	7.5	4.9
97.5°	7.5	8.8	10.4	10.4	11.4	3.9	9.9	11.4	11.0	7.9	5.1
100°	6.9	8.3	9.2	9.4	10.4	3.7	9.0	10.2	9.9	6.5	5.3
102.5°	6.5	6.9	7.2	7.5	7.7	3.4	6.9	7.7	7.5	4.9	4.9
105°	6.1	6.1	5.3	5.1	5.1	3.1	4.3	5.3	4.3	3.9	4.3
107.5°	6.1	5.7	4.3	3.9	3.9	3.0	3.4	3.4	3.0	3.9	4.1
110°	6.1	5.6	3.9	3.4	3.1	2.6	2.6	2.4	2.4	3.9	4.1



REPORT NUMBER: P266265

CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	5.7	5.3	3.4	3.0	3.0	2.4	2.2	1.9	2.2	3.9	4.3
115°	5.6	5.1	3.1	3.0	2.6	2.2	1.9	1.4	2.2	4.1	4.6
117.5°	5.6	5.1	3.1	2.6	2.4	1.9	1.6	1.4	2.2	4.1	4.6
120°	5.7	5.1	3.1	2.4	2.2	1.6	1.4	1.4	2.2	4.1	4.6
122.5°	5.6	4.9	3.0	2.2	1.9	1.6	1.4	1.4	2.2	4.1	4.3
125°	5.3	4.9	3.0	1.9	1.6	1.4	1.2	1.2	2.4	4.1	4.3
127.5°	5.1	4.6	2.6	1.6	1.4	1.4	1.2	1.2	2.4	3.9	4.1
130°	4.6	4.1	2.6	1.6	1.2	1.2	1.0	1.0	2.4	3.9	4.1
132.5°	4.1	3.9	2.4	1.4	1.0	1.0	1.0	1.0	2.2	3.4	3.7
135°	3.7	3.1	2.2	1.2	1.0	0.7	0.7	0.7	1.9	3.0	3.1
137.5°	3.1	3.0	1.9	1.2	0.7	0.7	0.4	0.4	1.6	2.6	3.0
140°	2.6	2.4	1.6	1.0	0.7	0.7	0.4	0.4	1.2	1.9	2.2
142.5°	1.9	1.9	1.4	1.0	0.7	0.4	0.4	0.4	1.2	1.6	1.9
145°	1.6	1.6	1.4	1.0	0.7	0.4	0.2	0.2	0.7	1.2	1.2
147.5°	1.4	1.4	1.2	1.0	0.4	0.2	0.2	0.2	0.4	0.7	0.7
150°	1.2	1.2	1.0	0.7	0.4	0.2	0.0	0.0	0.2	0.4	0.4
152.5°	0.7	0.7	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	0.2	0.2	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)