

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: P266266

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
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-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1714.6 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

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

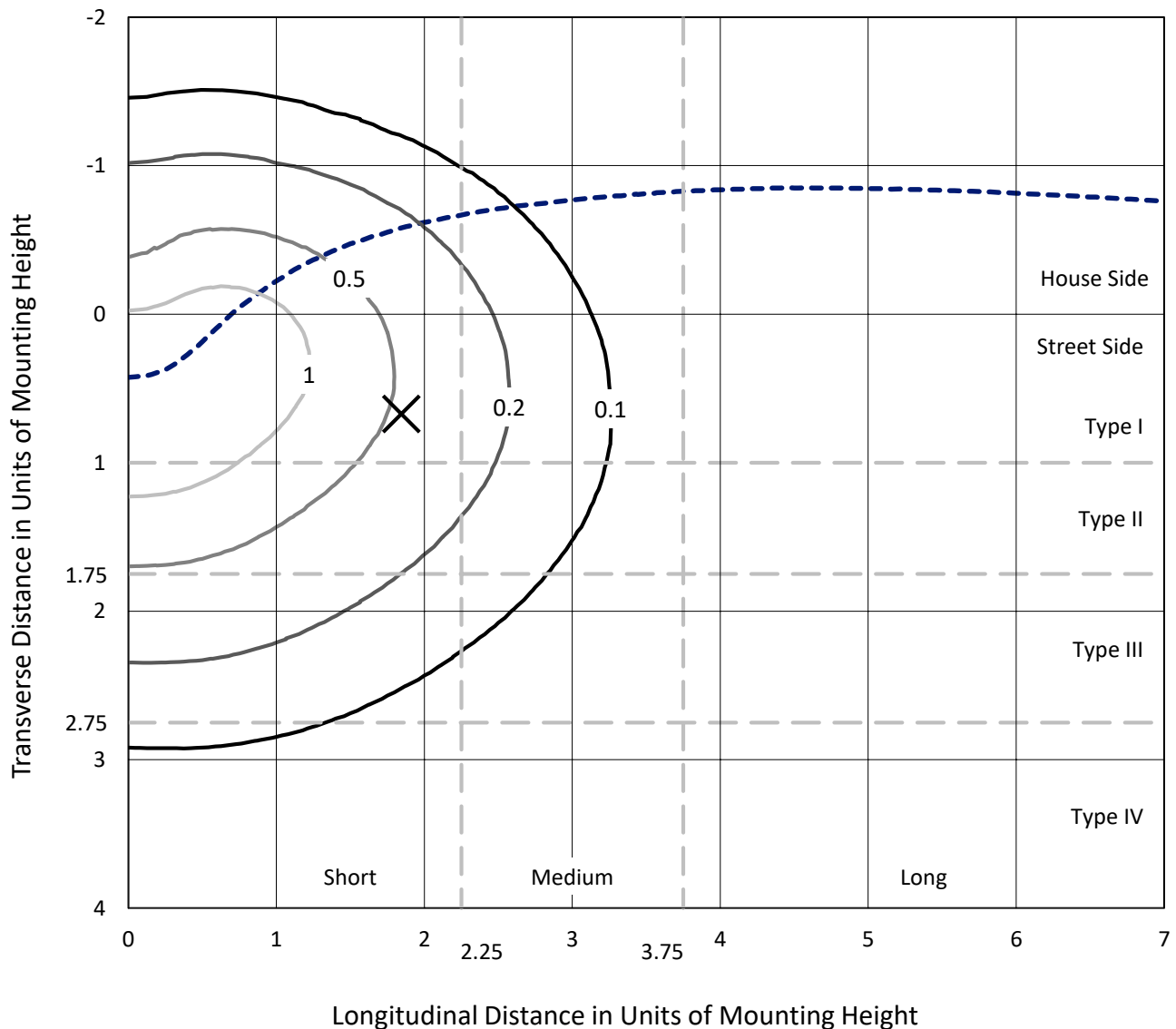


REPORT NUMBER: P266266

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

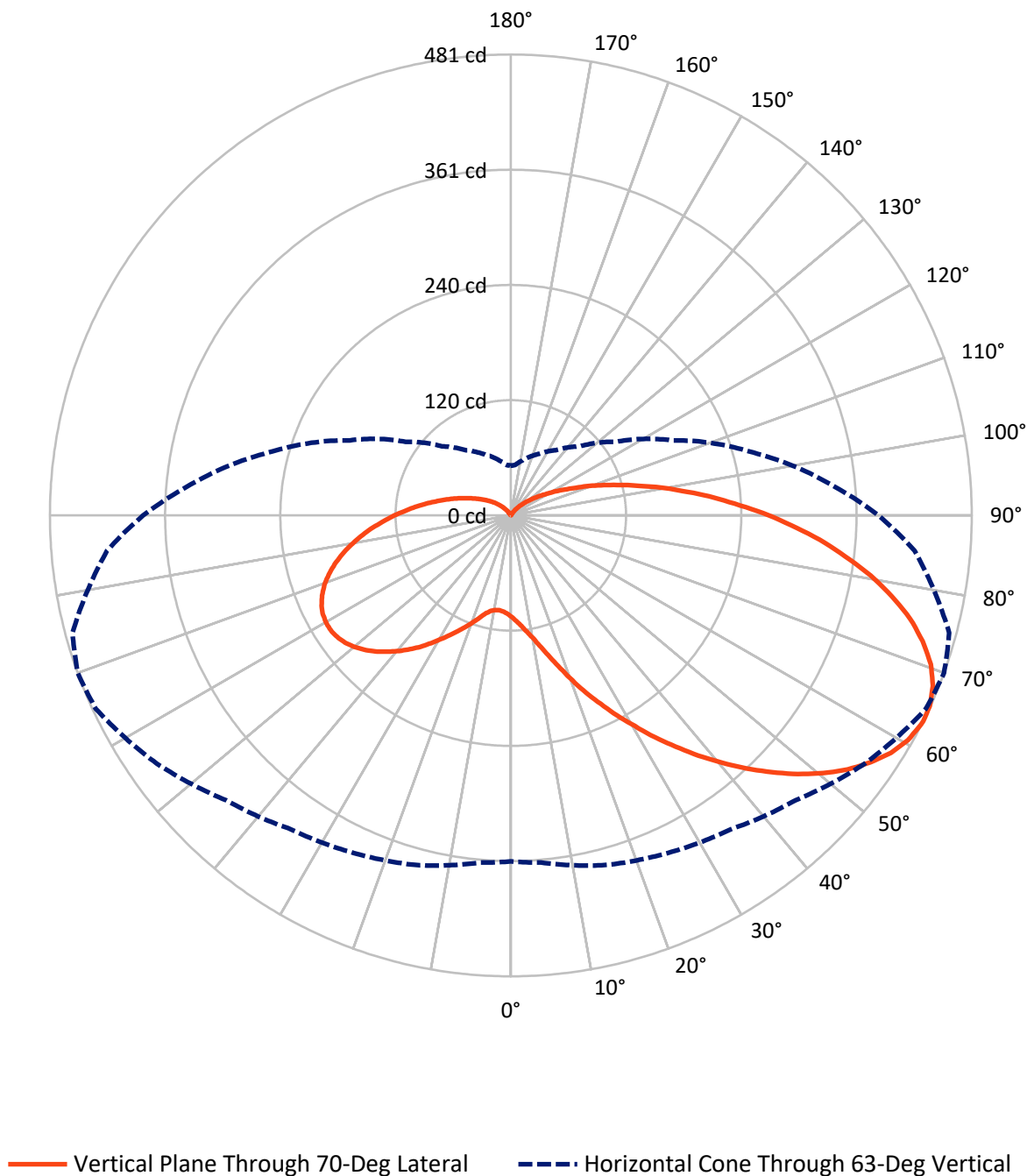


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P266266

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

Luminous Intensity Polar Plot



REPORT NUMBER: P266266

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

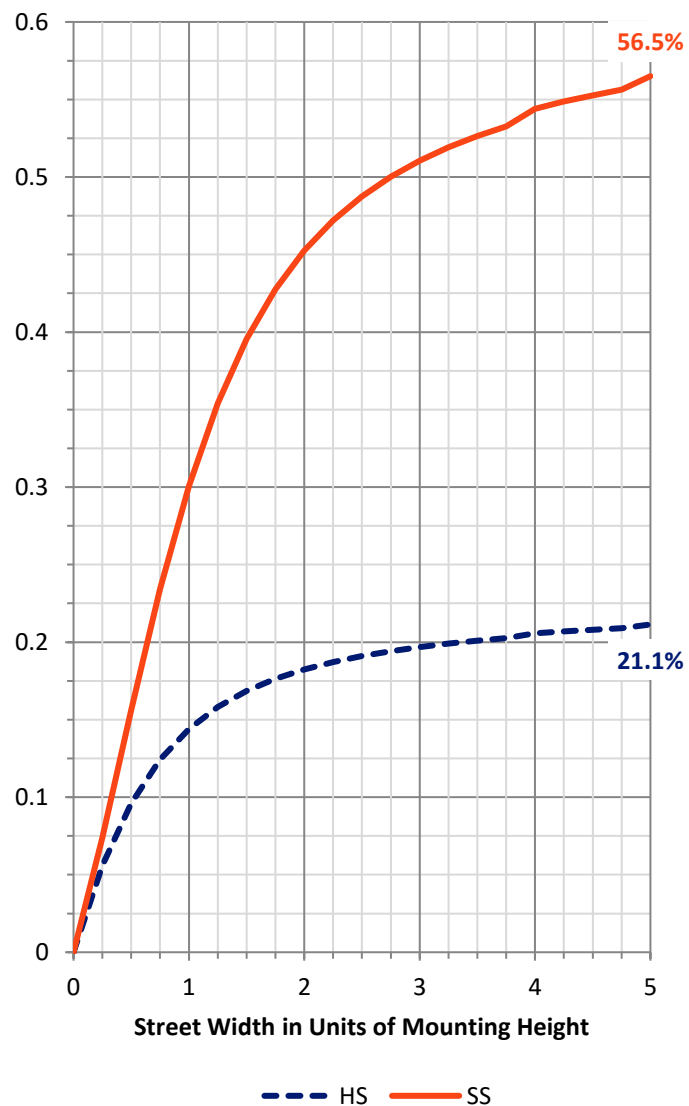
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	385.1	93.2	478.3
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	1041.0	195.4	1236.3
	% Fixture	60.7	11.4	72.1
Total	Lumens	1426.1	288.5	1714.6
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.6
10°-20°	36.6	2.1
20°-30°	77.8	4.5
30°-40°	134.2	7.8
40°-50°	198.0	11.5
50°-60°	252.0	14.7
60°-70°	273.5	15.9
70°-80°	250.1	14.6
80°-90°	193.5	11.3
90°-100°	130.4	7.6
100°-110°	79.3	4.6
110°-120°	44.4	2.6
120°-130°	22.6	1.3
130°-140°	9.3	0.5
140°-150°	2.3	0.1
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1426.1	83.2
0°-180°	1714.6	100.0

Coefficient of Utilization



REPORT NUMBER: P266266

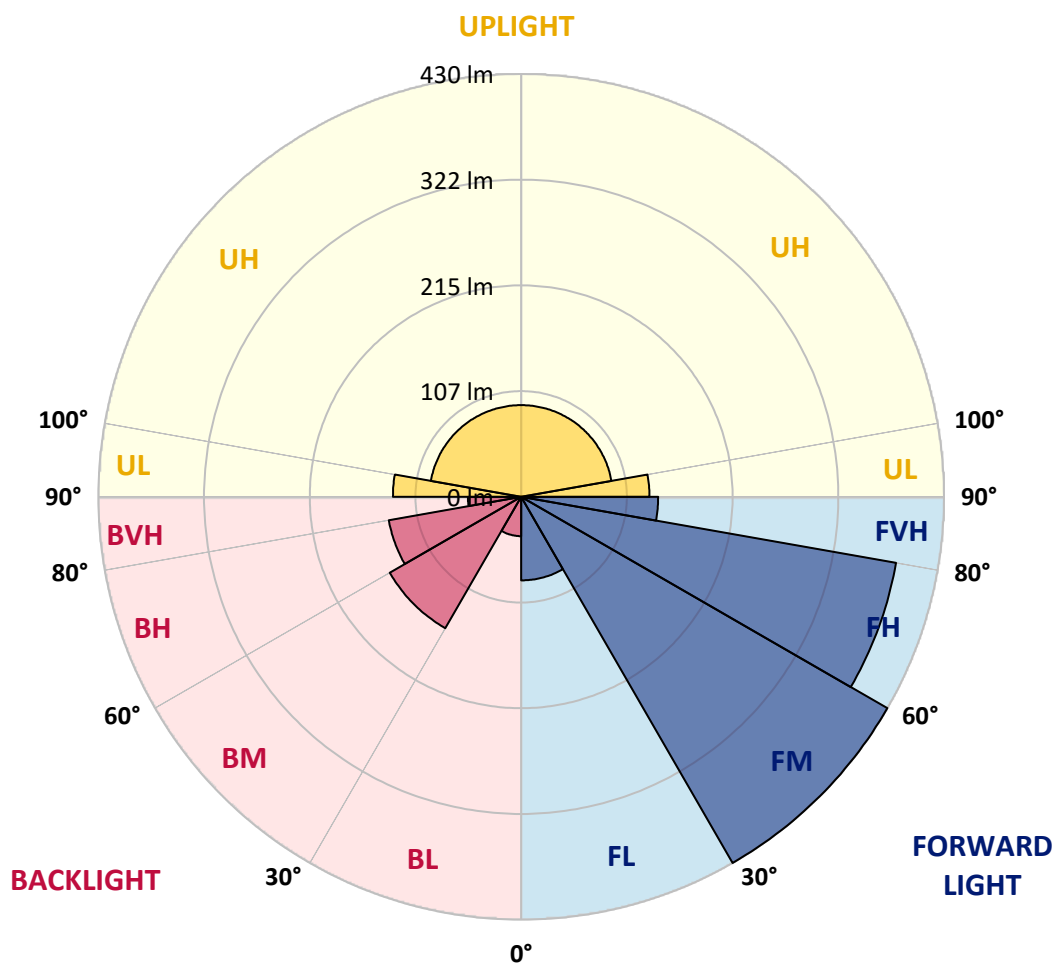
CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	85.0	5.0			
FM	(30°-60°)	429.8	25.1			
FH	(60°-80°)	386.9	22.6			G0/660
FVH	(80°-90°)	139.3	8.1			G2/225
BL	(0°-30°)	40.0	2.3	B0/110		
BM	(30°-60°)	154.3	9.0	B0/220		
BH	(60°-80°)	136.7	8.0	B1/500		G1/500
BVH	(80°-90°)	54.2	3.2			G1/100
UL	(90°-100°)	130.4	7.6		U3/500	
UH	(100°-180°)	93.2	5.4		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





REPORT NUMBER: P266266

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
2.5°	117.9	117.7	117.5	116.3	115.8	114.3	112.7	111.2	110.2	109.4	107.4
5°	130.3	129.8	129.1	128.0	125.9	123.5	120.7	117.5	115.8	113.9	110.2
7.5°	142.4	142.2	142.0	139.6	137.5	133.8	129.8	125.1	122.9	119.8	114.3
10°	155.8	156.2	154.9	152.7	149.2	145.3	140.1	133.8	130.8	127.5	120.1
12.5°	170.9	170.7	169.5	166.0	162.4	157.8	151.5	144.7	141.4	136.8	127.3
15°	186.4	185.4	184.1	181.6	177.1	171.8	165.1	157.5	153.4	148.5	137.8
17.5°	202.5	201.8	200.9	196.9	192.9	186.6	181.0	172.6	167.7	162.4	149.9
20°	218.6	218.1	216.9	213.8	209.0	203.3	198.0	189.2	183.6	177.1	163.0
22.5°	235.6	235.4	234.2	230.8	226.7	223.3	216.5	206.4	201.1	193.1	176.7
25°	253.1	253.4	251.3	248.0	245.1	242.0	234.9	224.4	217.8	209.8	191.2
27.5°	272.0	271.1	269.8	266.6	264.3	260.6	253.4	242.6	236.3	227.5	206.9
30°	289.6	289.9	286.7	284.9	283.2	279.7	272.9	262.0	254.9	246.9	223.3
32.5°	308.5	307.6	305.5	303.5	302.4	298.6	292.4	282.7	275.8	265.4	239.8
35°	325.0	324.8	322.5	323.0	319.9	316.9	312.3	303.4	296.1	286.3	258.4
37.5°	342.2	341.6	340.0	340.5	337.0	334.7	331.7	323.8	317.8	307.8	277.4
40°	358.2	357.0	355.9	356.5	354.0	352.3	350.8	345.4	339.1	328.6	296.4
42.5°	371.3	371.1	370.5	371.5	368.9	368.6	369.5	366.7	360.9	350.2	315.6
45°	382.5	382.5	383.4	384.1	381.8	382.5	387.2	386.5	382.0	371.3	335.3
47.5°	391.4	391.1	393.5	394.4	393.3	395.9	403.6	406.8	403.1	393.0	353.8
50°	396.5	396.5	400.7	401.9	402.1	407.0	417.8	425.0	422.5	413.0	371.3
52.5°	397.9	398.4	404.2	406.8	407.7	415.5	430.2	441.2	440.2	431.0	387.2
55°	395.7	396.3	404.0	408.0	410.7	421.6	440.0	455.4	454.7	446.3	400.3
57.5°	389.1	390.0	399.7	405.7	410.7	424.8	447.1	466.6	467.5	459.7	411.5
60°	378.7	380.0	391.9	399.6	407.6	424.5	450.9	473.9	475.9	467.7	419.0
62.5°	364.5	365.9	379.8	390.5	401.3	421.2	451.2	477.3	480.1	472.9	422.5
63°	360.8	363.4	377.6	388.3	399.6	420.0	450.9	477.5	480.7	473.3	422.7
65°	346.3	349.1	365.5	378.0	391.7	414.7	447.6	476.5	480.1	473.1	421.6
67.5°	326.1	329.8	347.0	362.5	379.8	405.1	440.3	470.5	474.8	467.9	416.4
70°	302.9	307.9	326.3	345.4	364.5	392.3	429.2	460.6	464.6	457.4	406.2
72.5°	279.6	285.1	305.0	325.5	347.0	376.5	413.6	445.3	449.1	443.0	391.9
75°	255.9	260.1	280.7	304.5	327.9	358.1	396.3	425.9	430.2	422.9	374.1
77.5°	231.0	236.9	258.1	282.1	307.1	339.1	375.8	403.8	406.4	399.0	351.2
80°	206.4	213.0	233.7	259.7	286.1	316.9	352.0	379.3	380.6	372.9	326.8
82.5°	185.0	191.0	212.3	237.2	263.9	295.5	327.4	350.8	351.6	344.5	301.2
85°	164.2	169.5	189.8	215.6	242.5	271.6	302.2	322.0	323.2	314.5	274.4
87.5°	145.4	149.7	169.3	195.0	221.2	249.9	275.3	291.9	292.2	283.8	247.8
90°	129.4	132.0	151.1	176.2	201.1	226.7	250.5	265.1	263.3	254.3	220.3
92.5°	113.7	115.8	133.4	157.8	182.4	205.5	226.4	235.6	233.5	225.8	195.7
95°	101.1	102.0	118.1	141.4	163.2	185.2	202.9	209.8	207.6	199.5	171.3
97.5°	88.3	89.7	104.5	125.5	146.7	166.5	181.0	185.4	181.5	173.6	150.1
100°	78.7	79.2	91.5	111.6	131.7	148.9	160.4	163.2	159.0	151.9	130.8
102.5°	69.8	69.6	80.8	99.5	117.5	132.0	141.8	141.6	137.1	130.8	113.5
105°	62.2	62.0	70.5	87.9	103.9	116.8	124.0	123.1	118.7	112.6	98.8
107.5°	54.8	55.3	61.7	76.8	91.3	102.8	108.2	106.0	102.0	96.5	85.7



REPORT NUMBER: P266266

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	49.4	49.4	54.3	67.6	80.8	90.1	94.3	91.3	87.6	81.9	74.0
112.5°	44.6	44.6	48.1	58.8	71.0	79.4	82.3	78.2	73.8	70.1	64.1
115°	40.2	40.2	42.5	51.2	62.0	68.9	70.5	66.4	62.6	59.7	56.1
117.5°	36.4	36.4	37.8	43.8	53.4	59.9	60.9	56.2	53.7	50.9	48.8
120°	32.9	33.1	33.6	37.5	45.5	51.2	51.7	47.3	45.0	43.7	42.5
122.5°	30.0	30.0	30.2	32.5	38.7	43.5	43.5	39.6	38.3	37.8	36.9
125°	27.0	27.0	27.0	28.0	32.2	35.9	35.6	33.1	32.5	32.5	32.0
127.5°	24.6	24.3	24.1	24.3	26.4	28.9	28.9	27.3	27.3	27.6	27.8
130°	22.0	21.6	21.3	20.8	21.0	22.8	22.6	22.2	22.6	23.4	23.9
132.5°	19.4	19.4	18.7	17.4	16.8	17.2	17.4	17.7	18.4	19.4	20.1
135°	16.8	16.8	16.1	14.6	13.0	12.8	12.5	13.7	14.9	15.9	16.6
137.5°	14.3	14.3	13.6	11.7	9.8	8.9	8.7	10.5	11.7	12.5	13.4
140°	11.9	11.7	11.0	9.2	6.9	5.6	5.6	7.5	8.7	9.6	10.5
142.5°	9.3	9.3	8.7	6.9	4.8	3.2	3.6	5.1	6.1	6.7	7.5
145°	6.9	6.9	6.3	4.8	2.9	1.6	1.8	3.2	4.0	4.8	5.4
147.5°	4.9	4.9	4.2	3.1	1.3	0.4	1.0	1.8	2.3	2.9	3.2
150°	3.1	3.1	2.5	1.6	0.7	0.0	0.2	1.0	1.2	1.3	1.8
152.5°	1.6	1.6	1.2	0.7	0.2	0.0	0.0	0.2	0.4	0.7	1.0
155°	0.7	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	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: P266266

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
2.5°	106.4	105.6	103.5	101.6	99.9	98.4	96.8	95.8	95.5	94.9	95.0
5°	108.2	106.3	102.2	98.8	95.0	91.9	89.7	87.6	86.0	85.2	85.0
7.5°	111.4	108.3	102.2	96.7	91.5	86.9	83.0	79.9	78.1	76.8	77.1
10°	116.2	112.1	103.9	96.2	89.0	82.6	77.6	73.8	71.0	69.8	69.8
12.5°	122.1	117.5	107.0	96.8	87.9	79.9	73.3	68.7	66.0	64.5	64.5
15°	132.0	125.1	112.1	99.3	87.9	78.2	71.0	65.8	63.5	62.3	62.2
17.5°	142.4	134.9	119.4	103.9	89.9	78.1	70.7	66.4	63.5	62.2	62.2
20°	153.9	145.0	127.0	109.4	93.5	80.8	72.7	67.3	63.8	62.0	61.7
22.5°	166.2	156.5	135.3	115.0	97.6	85.5	75.0	67.9	63.8	62.0	61.7
25°	180.0	168.2	143.5	121.2	103.2	89.7	77.8	68.9	63.8	61.4	61.2
27.5°	194.0	180.7	152.9	127.3	109.1	93.7	80.3	69.6	63.8	61.2	60.9
30°	209.2	193.3	162.1	134.2	114.4	97.1	82.5	70.2	63.8	60.9	60.7
32.5°	224.1	207.1	171.8	142.2	119.6	99.9	84.4	71.7	64.0	60.7	60.2
35°	240.7	221.8	182.4	150.1	124.2	102.5	86.0	72.7	63.8	60.2	59.9
37.5°	258.1	236.3	192.0	157.2	128.0	104.5	86.9	73.3	63.8	59.9	59.6
40°	275.3	251.0	202.3	164.2	131.5	106.0	87.9	74.0	63.5	59.6	59.1
42.5°	292.2	265.4	212.3	170.0	134.2	107.2	88.3	74.5	63.5	59.1	58.6
45°	309.5	280.2	222.8	175.6	136.5	107.6	88.3	74.5	63.8	58.6	58.1
47.5°	326.1	294.0	232.3	180.0	138.0	107.8	88.3	74.5	63.8	58.1	57.4
50°	340.6	306.6	240.2	183.9	139.0	107.8	88.0	74.5	63.8	57.4	56.8
52.5°	355.0	317.6	247.8	186.4	139.3	107.4	87.6	74.0	63.8	56.8	56.1
55°	366.4	327.4	253.0	187.9	139.0	106.7	86.6	73.5	63.5	56.1	55.2
57.5°	375.5	334.3	256.8	188.5	138.0	105.6	85.7	72.9	63.1	55.2	54.3
60°	381.3	338.4	258.1	187.6	136.6	103.9	84.5	72.1	62.3	54.2	53.2
62.5°	383.4	339.7	257.5	185.7	134.6	102.2	83.4	71.2	61.7	53.0	52.1
63°	383.4	339.6	257.4	185.2	133.8	101.8	83.2	71.0	61.4	52.8	51.8
65°	382.0	337.8	254.9	182.4	131.7	100.3	81.9	70.1	60.9	52.1	50.9
67.5°	376.2	332.8	249.6	178.1	128.2	97.8	80.0	68.7	59.7	50.9	49.8
70°	366.9	324.4	242.5	172.6	124.4	95.3	78.2	67.3	58.6	49.8	48.4
72.5°	353.2	312.7	233.3	166.0	120.1	92.4	76.1	65.7	57.0	48.4	46.7
75°	336.1	298.4	222.6	158.6	115.6	89.2	74.0	63.8	55.3	46.9	44.8
77.5°	315.9	281.9	210.2	150.8	110.4	86.0	71.4	61.7	53.7	45.5	42.9
80°	293.6	262.2	196.9	142.2	105.1	82.5	68.9	59.6	51.4	43.7	41.1
82.5°	271.1	242.6	182.8	133.4	99.7	79.0	66.0	57.2	49.2	41.9	39.3
85°	246.9	222.2	169.2	124.2	94.1	75.0	63.3	54.6	47.3	40.0	37.1
87.5°	223.5	201.3	153.9	115.3	88.8	71.4	60.5	52.1	44.6	37.5	35.6
90°	200.9	181.5	140.9	106.3	83.0	67.6	57.4	49.2	42.0	35.3	33.6
92.5°	178.9	161.3	126.7	97.8	77.6	63.8	54.2	46.4	39.4	33.1	31.8
95°	158.3	143.9	114.7	89.4	72.5	59.9	51.2	43.8	36.7	30.6	29.6
97.5°	139.0	127.3	102.9	82.3	66.7	56.2	47.9	40.9	33.9	28.2	27.8
100°	122.6	112.6	91.9	74.6	62.0	52.6	44.8	37.8	31.0	26.0	26.0
102.5°	107.2	98.4	81.7	67.7	57.0	48.6	41.3	34.9	28.2	23.9	23.9
105°	93.7	86.3	73.1	61.4	52.3	44.8	38.1	31.8	25.2	21.6	21.6
107.5°	81.2	75.6	64.9	55.5	47.6	40.9	34.9	28.4	22.2	19.7	19.9



REPORT NUMBER: P266266

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	71.2	66.7	57.8	49.8	43.2	37.5	31.8	25.4	19.4	17.7	17.7
112.5°	61.7	58.1	50.9	44.8	39.3	34.0	28.4	22.4	17.1	16.1	16.1
115°	54.0	51.2	45.0	40.0	35.3	30.6	25.2	19.4	14.7	14.3	14.6
117.5°	47.3	44.8	40.2	35.9	31.8	27.3	22.4	16.6	12.8	12.8	12.8
120°	41.1	39.4	35.3	31.8	28.2	24.1	19.4	14.1	11.1	11.1	11.5
122.5°	36.2	34.6	31.5	28.0	24.8	21.0	16.6	11.7	9.8	10.1	10.3
125°	31.4	30.4	27.6	24.6	21.5	17.7	13.7	9.6	8.7	8.9	9.2
127.5°	27.3	26.6	23.9	21.3	18.4	14.9	11.1	7.7	7.2	7.7	7.9
130°	23.4	22.8	20.8	18.2	15.5	12.3	8.9	6.3	6.3	6.7	6.7
132.5°	19.9	19.4	17.4	14.9	12.5	9.6	6.7	5.1	5.4	5.7	5.7
135°	16.6	16.1	14.6	12.3	9.8	7.2	5.1	4.2	4.8	4.9	4.9
137.5°	13.6	13.0	11.7	9.6	7.2	5.1	3.8	3.2	3.8	4.2	4.2
140°	10.3	10.3	9.2	7.2	5.1	3.6	2.5	2.5	3.1	3.2	3.2
142.5°	7.7	7.5	6.7	5.1	3.2	2.1	1.6	1.8	2.3	2.5	2.5
145°	5.4	5.1	4.8	3.6	1.8	1.2	1.0	1.3	1.6	1.8	1.8
147.5°	3.6	3.2	3.1	2.1	1.0	0.4	0.4	1.0	1.2	1.3	1.3
150°	1.8	1.8	1.6	1.0	0.4	0.0	0.2	0.4	0.7	0.7	0.7
152.5°	1.0	1.0	0.7	0.4	0.2	0.0	0.0	0.0	0.2	0.2	0.2
155°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.2	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	0.2	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)