

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: P240262

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240262
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 2018.3 lumens
Efficiency: N/A
Efficacy: 96.1 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



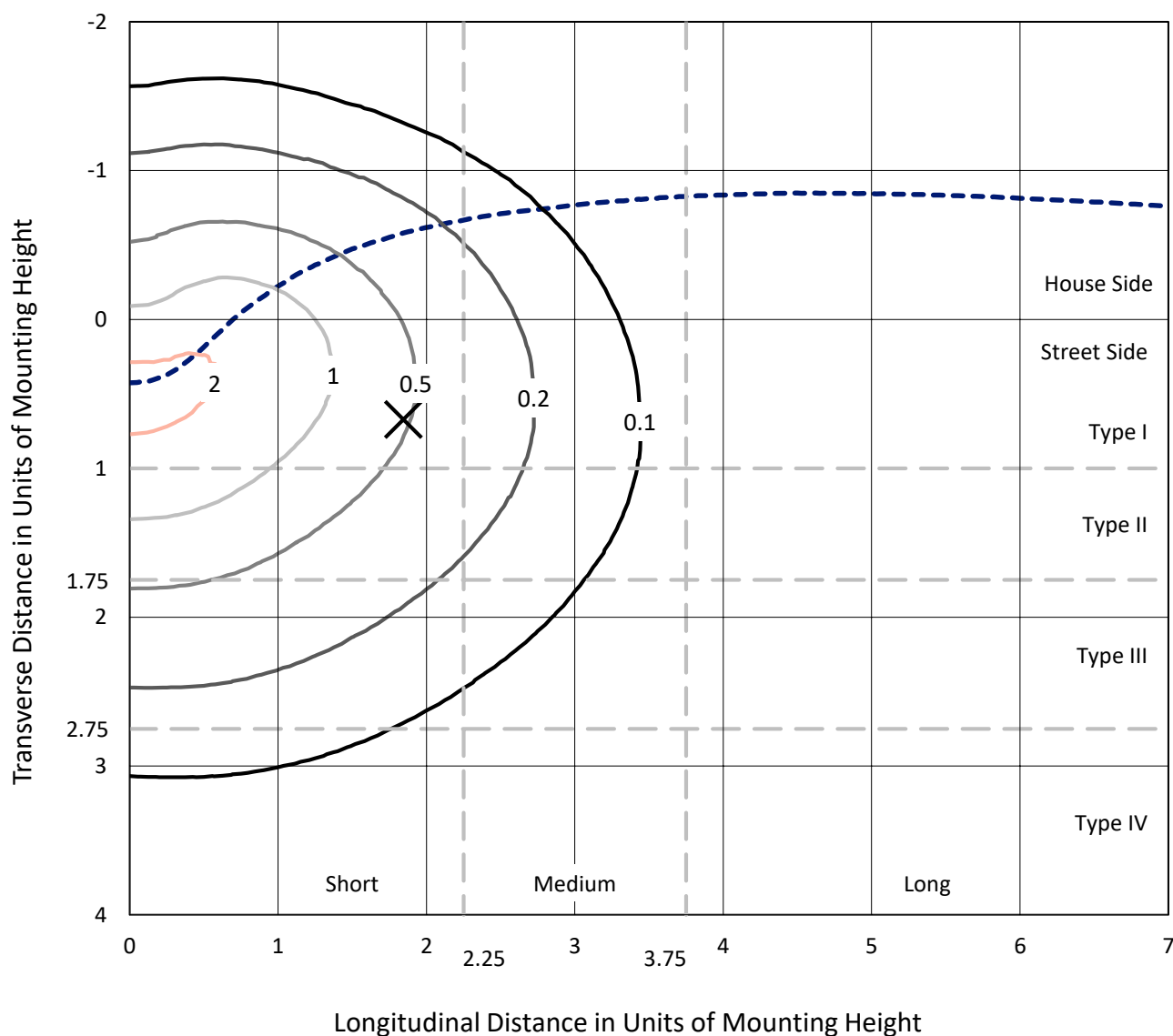
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

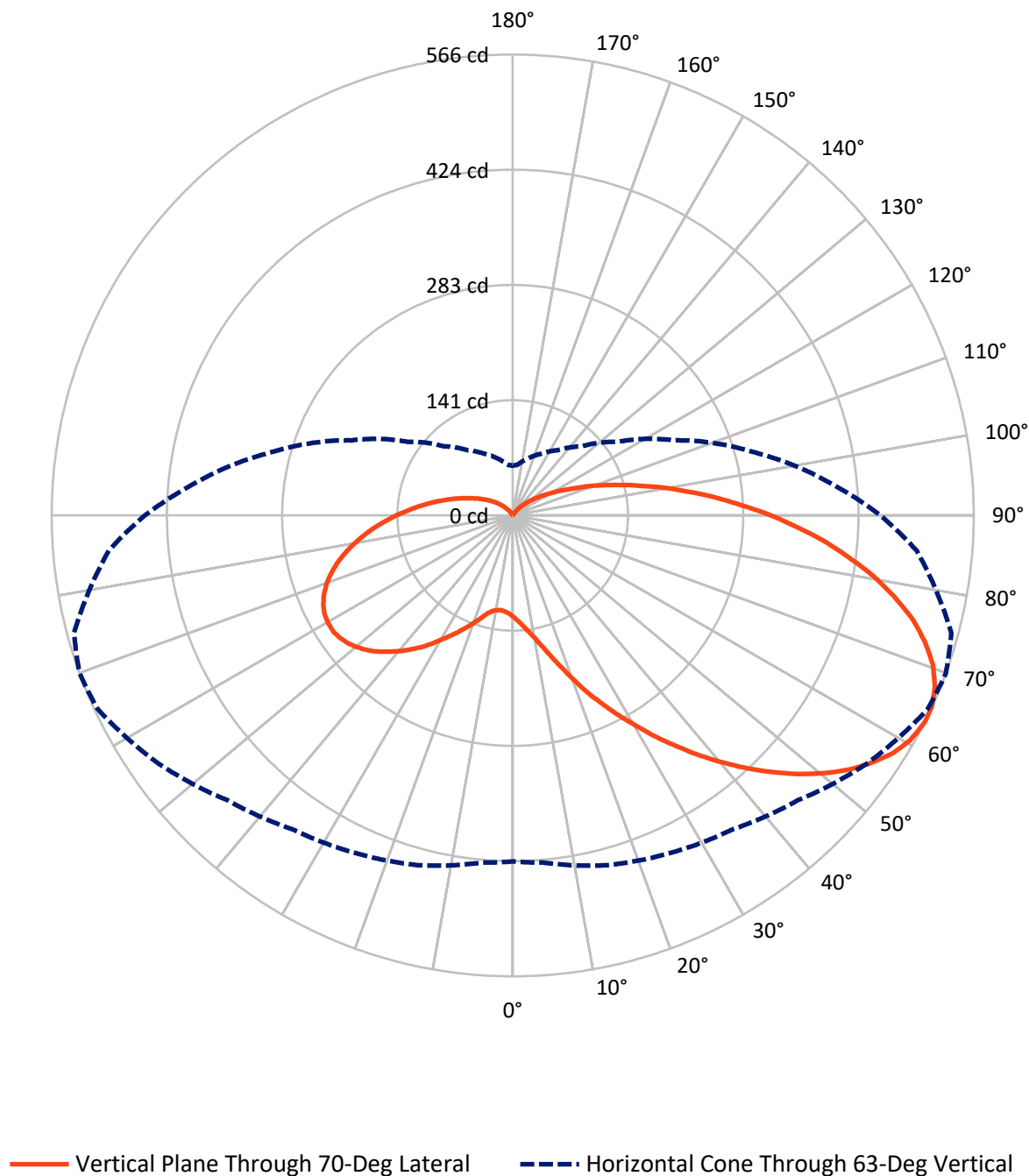


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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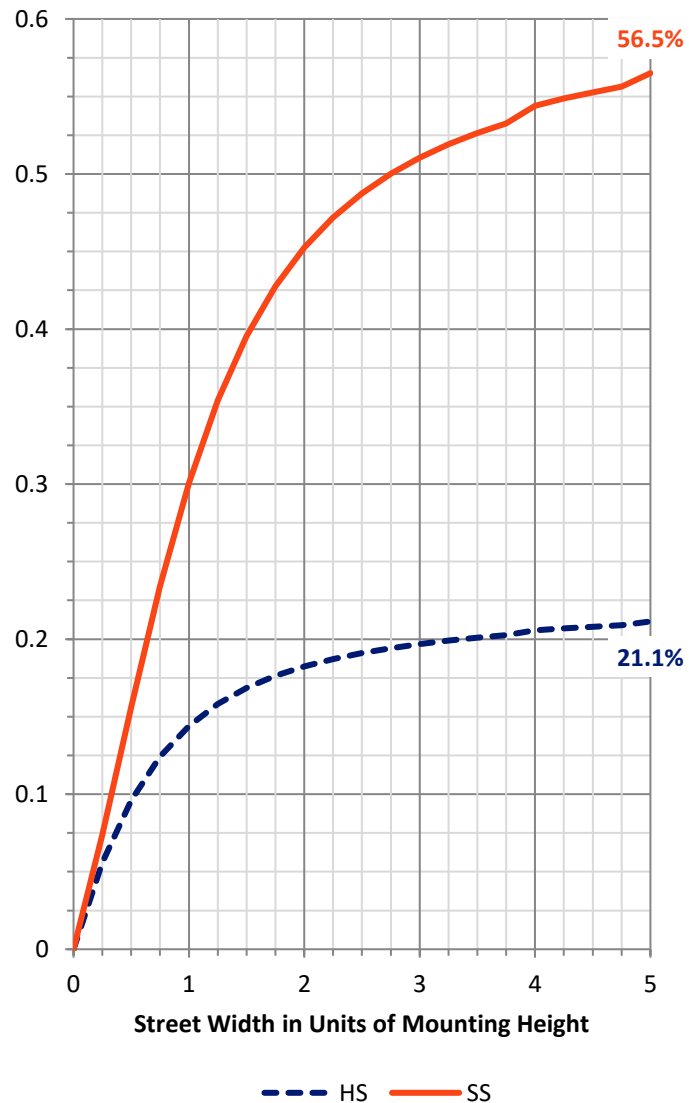
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	453.3	109.7	563.0
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	1225.3	230.0	1455.3
	% Fixture	60.7	11.4	72.1
Total	Lumens	1678.6	339.6	2018.3
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.6
10°-20°	43.1	2.1
20°-30°	91.6	4.5
30°-40°	158.0	7.8
40°-50°	233.0	11.5
50°-60°	296.6	14.7
60°-70°	321.9	15.9
70°-80°	294.4	14.6
80°-90°	227.7	11.3
90°-100°	153.5	7.6
100°-110°	93.4	4.6
110°-120°	52.3	2.6
120°-130°	26.6	1.3
130°-140°	11.0	0.5
140°-150°	2.7	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1678.6	83.2
0°-180°	2018.3	100.0

Coefficient of Utilization



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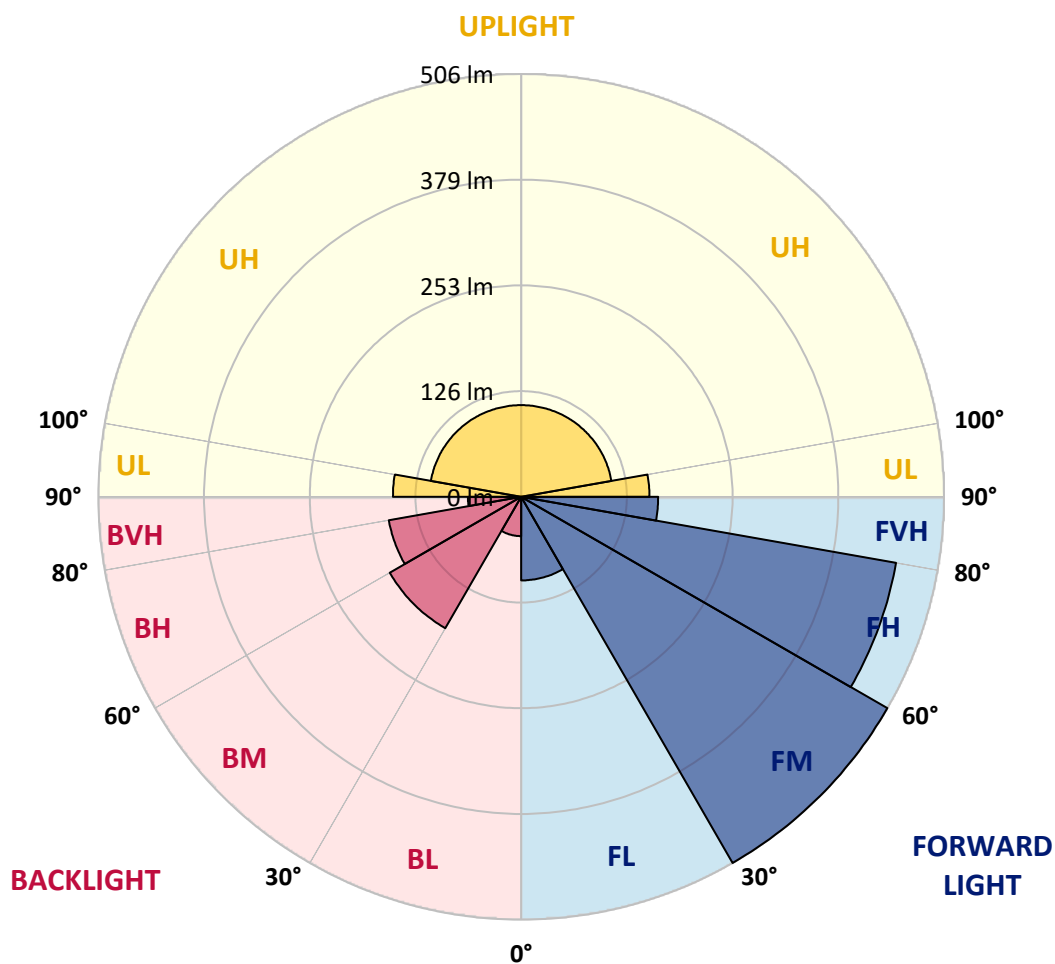
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	100.0	5.0			
FM	(30°-60°)	505.9	25.1			
FH	(60°-80°)	455.4	22.6			G0/660
FVH	(80°-90°)	163.9	8.1			G2/225
BL	(0°-30°)	47.1	2.3	B0/110		
BM	(30°-60°)	181.6	9.0	B0/220		
BH	(60°-80°)	160.9	8.0	B1/500		G1/500
BVH	(80°-90°)	63.8	3.2			G1/100
UL	(90°-100°)	153.5	7.6		U3/500	
UH	(100°-180°)	109.7	5.4		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5
2.5°	138.8	138.5	138.3	136.9	136.4	134.4	132.8	130.8	129.7	128.7	126.4
5°	153.3	152.8	152.0	150.7	148.1	145.5	142.1	138.3	136.4	134.1	129.7
7.5°	167.7	167.4	167.2	164.4	161.9	157.5	152.8	147.3	144.5	141.1	134.4
10°	183.3	183.9	182.3	179.7	175.6	170.9	164.9	157.5	154.0	150.1	141.3
12.5°	201.2	200.9	199.6	195.5	191.1	185.9	178.4	170.4	166.3	161.1	149.8
15°	219.3	218.3	216.6	213.9	208.4	202.3	194.4	185.3	180.6	174.8	162.1
17.5°	238.3	237.5	236.4	231.7	227.1	219.6	213.1	203.2	197.3	191.1	176.5
20°	257.3	256.8	255.3	251.7	246.0	239.5	233.1	222.7	216.0	208.4	191.9
22.5°	277.3	277.1	275.7	271.6	266.9	262.8	254.8	243.0	236.7	227.3	208.1
25°	298.0	298.3	295.7	292.0	288.7	284.8	276.5	264.1	256.5	246.8	225.2
27.5°	320.3	319.2	317.5	313.9	311.2	306.8	298.3	285.6	278.1	267.7	243.6
30°	340.8	341.2	337.6	335.3	333.5	329.3	321.3	308.4	300.1	290.5	262.8
32.5°	363.1	362.0	359.6	357.3	356.0	351.6	344.1	332.9	324.7	312.5	282.3
35°	382.7	382.4	379.6	380.1	376.5	373.0	367.5	357.1	348.5	337.0	304.0
37.5°	402.7	402.1	400.2	400.8	396.7	393.9	390.4	381.3	374.1	362.3	326.5
40°	421.7	420.3	418.9	419.7	416.8	414.8	412.9	406.5	399.2	386.8	348.8
42.5°	437.1	436.8	436.0	437.3	434.3	433.7	434.9	431.6	424.9	412.4	371.3
45°	450.3	450.3	451.3	452.1	449.4	450.3	455.7	454.9	449.7	437.1	394.8
47.5°	460.7	460.4	463.2	464.3	462.9	466.0	475.0	478.8	474.4	462.6	416.4
50°	466.8	466.8	471.7	473.1	473.3	479.2	491.7	500.3	497.3	486.0	437.1
52.5°	468.4	468.9	475.8	478.8	480.0	489.0	506.4	519.2	518.1	507.4	455.7
55°	465.6	466.5	475.6	480.2	483.5	496.1	517.9	536.0	535.2	525.3	471.2
57.5°	458.0	459.1	470.6	477.5	483.5	500.0	526.4	549.2	550.3	540.9	484.4
60°	445.9	447.2	461.2	470.4	479.7	499.7	530.8	557.7	560.2	550.6	493.2
62.5°	429.1	430.8	446.9	459.6	472.3	495.9	531.1	561.9	565.2	556.6	497.3
63°	424.7	427.7	444.5	457.2	470.4	494.5	530.8	562.1	565.7	557.2	497.6
65°	407.6	410.9	430.2	445.1	460.9	488.2	526.9	560.8	565.2	556.9	496.1
67.5°	383.7	388.1	408.5	426.6	446.9	476.9	518.4	553.9	558.8	550.9	490.1
70°	356.5	362.5	384.0	406.5	429.1	461.8	505.2	542.1	546.8	538.5	478.0
72.5°	329.1	335.6	359.0	383.2	408.5	443.1	486.8	524.2	528.6	521.5	461.2
75°	301.3	306.2	330.4	358.4	386.0	421.4	466.5	501.3	506.4	497.8	440.4
77.5°	271.9	278.8	303.7	332.0	361.5	399.2	442.3	475.3	478.3	469.7	413.4
80°	243.0	250.7	275.2	305.7	336.8	373.0	414.3	446.4	448.1	438.9	384.5
82.5°	217.7	224.8	249.9	279.3	310.6	347.7	385.3	412.9	414.0	405.5	354.6
85°	193.2	199.6	223.5	253.7	285.3	319.7	355.7	379.1	380.4	370.3	322.9
87.5°	171.2	176.2	199.3	229.6	260.3	294.1	324.1	343.6	343.9	334.0	291.6
90°	152.3	155.3	177.9	207.6	236.7	266.9	294.9	312.0	309.7	299.3	259.2
92.5°	133.9	136.4	156.9	185.9	214.7	241.9	266.4	277.3	274.9	265.8	230.4
95°	119.1	120.1	139.1	166.3	192.1	218.0	238.9	246.8	244.4	234.8	201.7
97.5°	103.9	105.6	122.9	147.6	172.7	196.0	213.1	218.3	213.6	204.3	176.8
100°	92.7	93.2	107.7	131.3	155.1	175.3	188.8	192.1	187.2	178.7	154.0
102.5°	82.1	81.9	95.1	117.1	138.3	155.3	166.8	166.5	161.3	154.0	133.6
105°	73.1	72.8	83.1	103.3	122.3	137.5	146.0	144.8	139.6	132.5	116.3
107.5°	64.5	65.2	72.5	90.4	107.5	120.9	127.3	124.8	120.1	113.5	100.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	58.3	58.3	64.0	79.5	95.1	106.1	111.1	107.5	103.1	96.5	87.2
112.5°	52.5	52.5	56.7	69.3	83.6	93.5	96.8	92.1	86.8	82.4	75.6
115°	47.3	47.3	50.0	60.1	72.8	81.1	83.1	78.1	73.7	70.4	66.0
117.5°	42.9	42.9	44.5	51.7	62.9	70.7	71.7	66.3	63.2	59.9	57.5
120°	38.8	39.1	39.6	44.3	53.6	60.1	60.8	55.5	53.1	51.4	50.0
122.5°	35.2	35.2	35.5	38.3	45.6	51.1	51.1	46.7	45.1	44.5	43.5
125°	31.9	31.9	31.9	32.9	38.0	42.4	41.7	39.1	38.3	38.3	37.6
127.5°	28.8	28.5	28.3	28.5	31.1	34.1	34.1	32.1	32.1	32.4	32.7
130°	25.9	25.6	25.1	24.4	24.8	26.9	26.7	26.1	26.7	27.5	28.0
132.5°	22.8	22.8	22.0	20.7	19.7	20.4	20.7	20.9	21.7	22.8	23.6
135°	19.7	19.7	18.9	17.1	15.3	15.1	14.8	16.3	17.6	18.7	19.5
137.5°	16.8	16.8	16.0	13.7	11.6	10.4	10.1	12.4	13.7	14.8	15.7
140°	14.0	13.7	12.9	10.7	8.3	6.5	6.5	8.8	10.1	11.3	12.4
142.5°	10.9	10.9	10.1	8.3	5.5	3.9	4.1	6.0	7.2	8.0	8.8
145°	8.3	8.3	7.5	5.5	3.3	1.9	2.1	3.9	4.7	5.5	6.3
147.5°	5.7	5.7	4.9	3.6	1.6	0.5	1.1	2.1	2.8	3.3	3.9
150°	3.6	3.6	3.1	1.9	0.8	0.0	0.3	1.1	1.3	1.6	2.1
152.5°	1.9	1.9	1.3	0.8	0.3	0.0	0.0	0.3	0.5	0.8	1.1
155°	0.8	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5
2.5°	125.3	124.3	121.7	119.6	117.6	115.7	114.1	112.7	112.4	111.6	111.9
5°	127.3	125.1	120.4	116.3	111.9	108.3	105.6	103.1	101.2	100.4	100.0
7.5°	131.1	127.6	120.4	113.8	107.7	102.3	97.6	94.0	91.9	90.4	90.7
10°	136.7	132.0	122.3	113.2	104.8	97.3	91.2	86.8	83.6	82.1	82.1
12.5°	143.7	138.3	125.9	114.1	103.3	94.0	86.3	80.8	77.7	75.9	75.9
15°	155.3	147.3	132.0	116.8	103.3	92.1	83.6	77.5	74.8	73.3	73.1
17.5°	167.7	158.9	140.5	122.3	105.9	91.9	83.3	78.1	74.8	73.1	73.1
20°	181.2	170.7	149.6	128.7	110.0	95.1	85.5	79.2	75.1	72.8	72.5
22.5°	195.7	184.1	159.2	135.2	114.9	100.6	88.3	80.0	75.1	72.8	72.5
25°	212.0	197.9	169.1	142.7	121.5	105.6	91.6	81.1	75.1	72.3	72.0
27.5°	228.4	212.8	180.0	149.8	128.4	110.3	94.5	81.9	75.1	72.0	71.7
30°	246.3	227.6	190.8	158.0	134.7	114.4	97.1	82.8	75.1	71.7	71.5
32.5°	263.9	243.9	202.3	167.4	140.8	117.6	99.2	84.4	75.3	71.5	70.9
35°	283.4	261.2	214.7	176.8	146.3	120.7	101.2	85.5	75.1	70.9	70.7
37.5°	303.7	278.1	226.0	184.9	150.7	122.9	102.3	86.3	75.1	70.7	70.1
40°	324.1	295.5	238.0	193.2	154.8	124.8	103.3	87.2	74.8	70.1	69.6
42.5°	343.9	312.5	249.9	200.1	158.0	126.1	103.9	87.7	74.8	69.6	68.9
45°	364.2	329.9	262.3	206.7	160.5	126.7	103.9	87.7	75.1	68.9	68.4
47.5°	383.7	346.1	273.5	212.0	162.4	126.9	103.9	87.7	75.1	68.4	67.6
50°	401.1	360.9	282.8	216.4	163.6	126.9	103.6	87.7	75.1	67.6	66.8
52.5°	417.8	373.9	291.6	219.3	164.1	126.4	103.1	87.2	75.1	66.8	66.0
55°	431.3	385.3	297.7	221.3	163.6	125.6	102.0	86.5	74.8	66.0	64.9
57.5°	442.0	393.6	302.4	221.9	162.4	124.3	100.9	85.7	74.3	64.9	64.0
60°	448.9	398.3	303.7	220.8	160.8	122.3	99.5	84.9	73.3	63.7	62.7
62.5°	451.3	400.0	303.2	218.5	158.4	120.4	98.1	83.9	72.5	62.4	61.3
63°	451.3	399.7	302.9	218.0	157.5	119.9	97.9	83.6	72.3	62.1	61.1
65°	449.7	397.5	300.1	214.7	155.1	117.9	96.5	82.4	71.7	61.3	59.9
67.5°	442.8	391.7	293.9	209.7	150.9	115.2	94.3	80.8	70.4	59.9	58.5
70°	431.9	381.8	285.3	203.2	146.5	112.1	92.1	79.2	68.9	58.5	56.9
72.5°	415.6	368.1	274.6	195.5	141.3	108.8	89.6	77.2	67.1	56.9	54.9
75°	395.6	351.3	262.0	186.7	136.1	105.0	87.2	75.1	65.2	55.2	52.8
77.5°	371.9	331.7	247.3	177.6	130.0	101.2	84.1	72.5	63.2	53.6	50.5
80°	345.6	308.7	231.7	167.4	123.7	97.1	81.1	70.1	60.5	51.4	48.4
82.5°	319.2	285.6	215.2	156.9	117.3	92.9	77.7	67.3	58.0	49.2	46.1
85°	290.5	261.4	199.0	146.3	110.8	88.3	74.5	64.3	55.5	47.1	43.7
87.5°	263.1	236.9	181.2	135.7	104.4	84.1	71.2	61.3	52.5	44.3	41.7
90°	236.4	213.6	165.7	125.1	97.6	79.5	67.6	58.0	49.5	41.5	39.6
92.5°	210.5	190.0	148.9	115.2	91.2	75.1	63.7	54.7	46.4	39.1	37.3
95°	186.4	169.3	134.9	105.3	85.2	70.7	60.1	51.7	43.2	36.0	34.9
97.5°	163.6	149.8	121.2	96.8	78.7	66.3	56.4	48.1	39.9	33.2	32.7
100°	144.3	132.5	108.3	88.0	72.8	61.9	52.8	44.5	36.5	30.5	30.5
102.5°	126.1	115.7	96.3	79.7	67.1	57.2	48.7	40.9	33.2	28.0	28.0
105°	110.3	101.7	86.0	72.3	61.6	52.8	44.8	37.3	29.7	25.6	25.6
107.5°	95.6	89.1	76.4	65.5	56.1	48.1	40.9	33.6	26.1	23.1	23.3



REPORT NUMBER: P240262

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	83.9	78.7	67.9	58.5	50.8	44.3	37.3	30.0	22.8	20.9	20.9
112.5°	72.5	68.4	59.9	52.8	46.1	40.1	33.6	26.4	20.0	18.9	18.9
115°	63.5	60.1	53.1	47.1	41.5	36.0	29.7	22.8	17.3	16.8	17.1
117.5°	55.5	52.8	47.3	42.4	37.3	32.1	26.4	19.5	15.1	15.1	15.1
120°	48.4	46.4	41.5	37.3	33.2	28.3	22.8	16.5	13.2	13.2	13.5
122.5°	42.7	40.7	37.1	32.9	29.2	24.8	19.5	13.7	11.6	11.9	12.1
125°	36.8	35.7	32.4	28.8	25.3	20.9	16.3	11.3	10.1	10.4	10.7
127.5°	32.1	31.3	28.0	25.1	21.7	17.6	13.2	9.1	8.5	9.1	9.3
130°	27.5	26.9	24.4	21.5	18.1	14.5	10.4	7.5	7.5	8.0	8.0
132.5°	23.3	22.8	20.7	17.6	14.8	11.3	8.0	6.0	6.3	6.9	6.9
135°	19.5	18.9	17.1	14.5	11.6	8.5	6.0	4.9	5.5	5.7	5.7
137.5°	16.0	15.3	13.7	11.3	8.5	6.0	4.4	3.9	4.4	4.9	4.9
140°	12.1	12.1	10.7	8.5	6.0	4.1	3.1	3.1	3.6	3.9	3.9
142.5°	9.1	8.8	8.0	6.0	3.9	2.5	1.9	2.1	2.8	3.1	3.1
145°	6.3	6.0	5.5	4.1	2.1	1.3	1.1	1.6	1.9	2.1	2.1
147.5°	4.1	3.9	3.6	2.5	1.1	0.5	0.5	1.1	1.3	1.6	1.6
150°	2.1	2.1	1.9	1.1	0.5	0.0	0.3	0.5	0.8	0.8	0.8
152.5°	1.1	1.1	0.8	0.5	0.3	0.0	0.0	0.0	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.3	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	0.3	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)