

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: P240254

Luminaire Tested: **UTLD-AF24-30-D-U-SL3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240254
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-AF24-30-D-U-SL3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA 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: 2671.4 lumens
Efficiency: N/A
Efficacy: 86.2 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

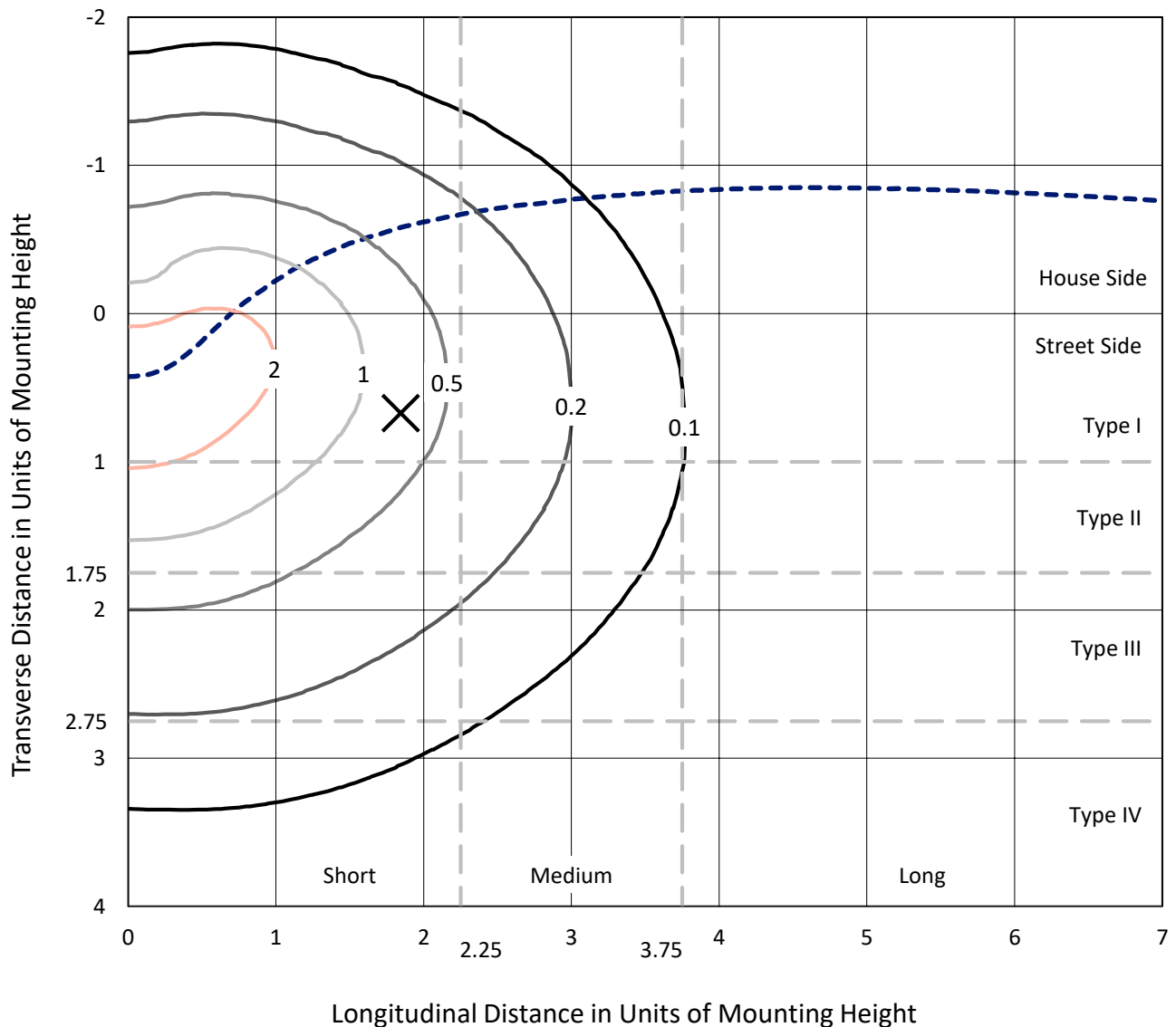
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

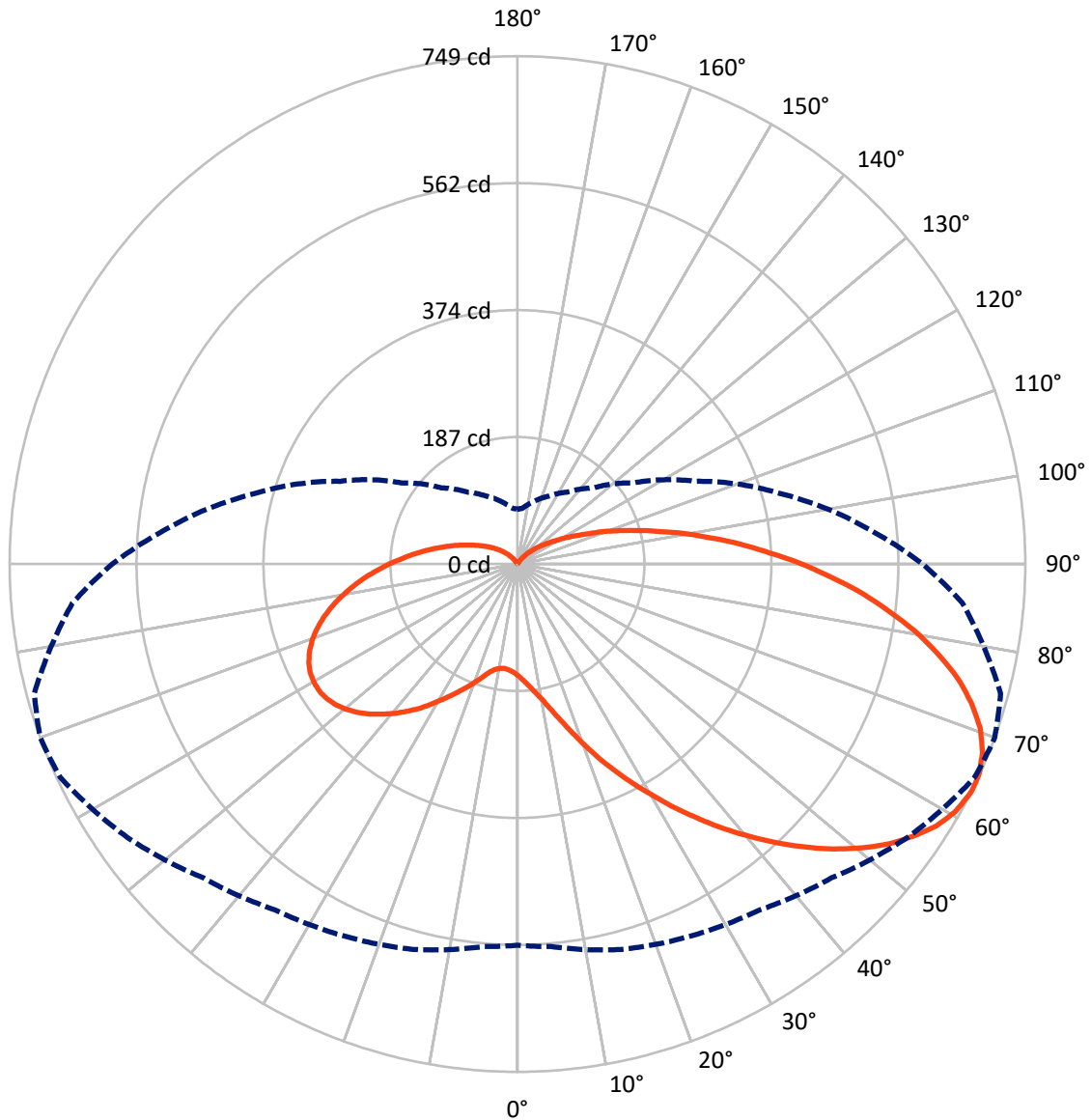
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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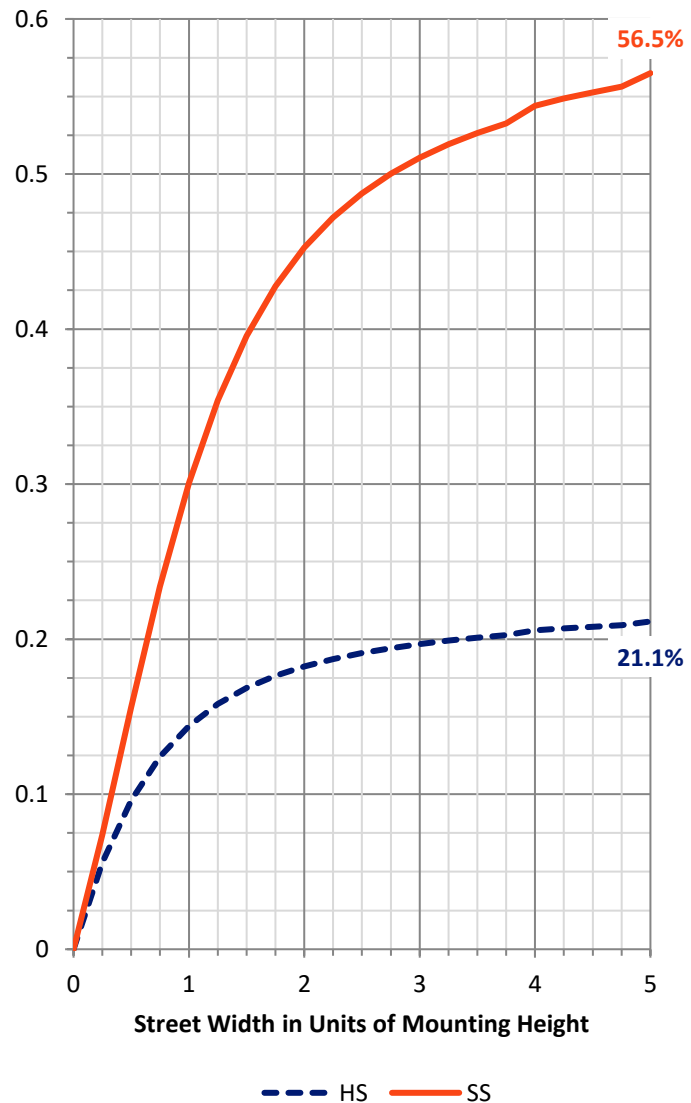
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	600.0	145.2	745.2
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	1621.8	304.4	1926.2
	% Fixture	60.7	11.4	72.1
Total	Lumens	2221.8	449.5	2671.4
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	0.6
10°-20°	57.1	2.1
20°-30°	121.2	4.5
30°-40°	209.1	7.8
40°-50°	308.4	11.5
50°-60°	392.5	14.7
60°-70°	426.1	15.9
70°-80°	389.6	14.6
80°-90°	301.4	11.3
90°-100°	203.1	7.6
100°-110°	123.6	4.6
110°-120°	69.2	2.6
120°-130°	35.2	1.3
130°-140°	14.6	0.5
140°-150°	3.6	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2221.8	83.2
0°-180°	2671.4	100.0

Coefficient of Utilization



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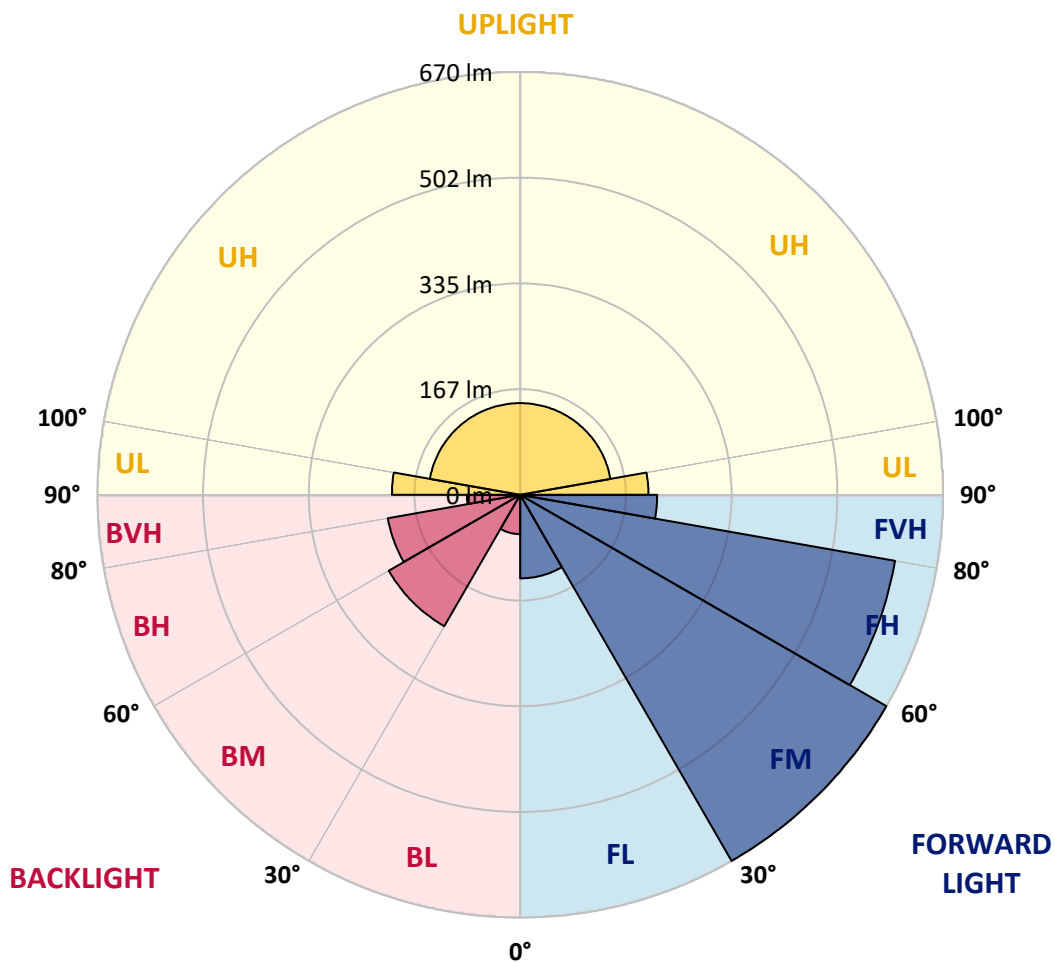
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.4	5.0			
FM	(30°-60°)	669.7	25.1			
FH	(60°-80°)	602.8	22.6			G0/660
FVH	(80°-90°)	217.0	8.1			G2/225
BL	(0°-30°)	62.3	2.3	B0/110		
BM	(30°-60°)	240.3	9.0	B1/1000		
BH	(60°-80°)	212.9	8.0	B1/500		G1/500
BVH	(80°-90°)	84.4	3.2			G1/100
UL	(90°-100°)	203.1	7.6		U3/500	
UH	(100°-180°)	145.2	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°	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8
2.5°	183.8	183.3	183.0	181.2	180.5	177.9	175.7	173.1	171.7	170.2	167.3
5°	203.0	202.2	201.1	199.4	196.1	192.6	188.2	183.0	180.5	177.5	171.7
7.5°	221.9	221.6	221.2	217.5	214.2	208.4	202.2	195.0	191.4	186.7	177.9
10°	242.7	243.4	241.3	237.9	232.5	226.2	218.3	208.4	203.8	198.7	187.1
12.5°	266.4	265.9	264.2	258.7	252.8	246.0	236.1	225.6	220.1	213.2	198.3
15°	290.3	288.9	286.7	283.1	275.8	267.8	257.2	245.2	239.1	231.4	214.7
17.5°	315.4	314.3	312.9	306.7	300.6	290.7	282.0	268.9	261.2	252.8	233.6
20°	340.6	339.8	338.0	333.2	325.6	316.9	308.5	294.7	285.9	275.8	253.9
22.5°	367.1	366.8	364.9	359.5	353.2	347.8	337.3	321.7	313.2	300.9	275.5
25°	394.4	394.8	391.4	386.3	382.1	377.0	366.0	349.6	339.5	326.6	297.9
27.5°	423.8	422.4	420.2	415.5	411.9	406.0	394.8	378.0	368.2	354.3	322.4
30°	451.1	451.6	446.8	443.9	441.3	435.8	425.3	408.2	397.2	384.6	347.8
32.5°	480.6	479.2	476.0	473.0	471.1	465.3	455.5	440.7	429.7	413.6	373.6
35°	506.4	506.1	502.5	503.1	498.4	493.8	486.4	472.6	461.3	446.1	402.4
37.5°	532.9	532.3	529.7	530.5	525.0	521.3	516.7	504.7	495.2	479.5	432.2
40°	558.1	556.3	554.5	555.6	551.5	549.0	546.6	538.1	528.3	511.9	461.7
42.5°	578.5	578.1	577.0	578.8	574.8	574.1	575.6	571.2	562.4	545.8	491.5
45°	596.0	596.0	597.4	598.5	594.9	596.0	603.2	602.1	595.3	578.5	522.5
47.5°	609.7	609.4	613.1	614.5	612.7	616.7	628.7	633.8	628.0	612.3	551.2
50°	617.8	617.8	624.3	626.2	626.5	634.1	650.8	662.2	658.2	643.2	578.5
52.5°	619.9	620.7	629.8	633.8	635.3	647.3	670.2	687.2	685.8	671.6	603.2
55°	616.3	617.5	629.5	635.7	639.9	656.7	685.5	709.5	708.4	695.3	623.7
57.5°	606.2	607.6	622.9	631.9	639.9	661.8	696.7	726.9	728.4	715.9	641.1
60°	590.1	591.9	610.5	622.6	634.9	661.4	702.5	738.3	741.6	728.8	652.8
62.5°	567.9	570.2	591.6	608.3	625.1	656.3	703.0	743.7	748.0	736.7	658.2
63°	562.1	566.1	588.4	605.1	622.6	654.6	702.5	744.0	748.8	737.5	658.5
65°	539.5	543.9	569.4	589.0	610.1	646.2	697.5	742.2	748.0	737.2	656.7
67.5°	507.9	513.7	540.7	564.7	591.6	631.3	686.1	733.1	739.6	729.1	648.7
70°	471.9	479.8	508.3	538.1	567.9	611.2	668.7	717.5	723.7	712.7	632.7
72.5°	435.5	444.2	475.2	507.2	540.7	586.5	644.3	693.8	699.7	690.2	610.5
75°	398.8	405.4	437.4	474.4	510.8	557.8	617.5	663.6	670.2	659.0	582.9
77.5°	359.8	369.0	402.1	439.6	478.4	528.3	585.4	629.2	633.0	621.8	547.2
80°	321.7	331.8	364.2	404.6	445.7	493.8	548.3	590.9	593.1	581.0	509.0
82.5°	288.1	297.6	330.7	369.7	411.2	460.2	510.1	546.6	547.9	536.7	469.4
85°	255.7	264.2	295.8	335.9	377.7	423.2	470.8	501.7	503.5	490.1	427.5
87.5°	226.7	233.3	263.8	303.8	344.6	389.3	429.0	454.8	455.2	442.1	386.0
90°	201.6	205.5	235.5	274.7	313.2	353.2	390.4	413.0	410.0	396.2	343.1
92.5°	177.2	180.5	207.7	246.0	284.2	320.1	352.6	367.1	363.9	351.9	305.0
95°	157.6	159.0	184.1	220.1	254.3	288.6	316.2	326.6	323.4	310.8	267.0
97.5°	137.5	139.8	162.7	195.3	228.5	259.4	282.0	288.9	282.7	270.3	234.0
100°	122.6	123.4	142.6	173.9	205.2	232.1	249.9	254.3	247.8	236.5	203.8
102.5°	108.8	108.3	125.8	155.0	183.0	205.5	220.8	220.4	213.6	203.8	176.8
105°	96.8	96.3	110.0	136.8	161.9	181.9	193.2	191.7	184.8	175.4	153.9
107.5°	85.5	86.2	96.0	119.7	142.2	160.1	168.5	165.2	159.0	150.2	133.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	77.1	77.1	84.7	105.1	125.8	140.4	147.0	142.2	136.5	127.8	115.4
112.5°	69.5	69.5	75.0	91.7	110.6	123.7	128.1	122.0	114.9	109.2	100.1
115°	62.6	62.6	66.2	79.6	96.3	107.3	110.0	103.4	97.5	93.1	87.3
117.5°	56.7	56.7	58.9	68.4	83.4	93.5	94.9	87.7	83.7	79.3	76.1
120°	51.4	51.7	52.5	58.6	70.9	79.6	80.5	73.5	70.3	68.1	66.2
122.5°	46.6	46.6	47.0	50.6	60.4	67.6	67.6	61.8	59.6	58.9	57.5
125°	42.2	42.2	42.2	43.7	50.3	56.0	55.2	51.7	50.6	50.6	49.8
127.5°	38.2	37.8	37.4	37.8	41.1	45.2	45.2	42.6	42.6	42.9	43.2
130°	34.2	33.9	33.1	32.3	32.8	35.6	35.3	34.5	35.3	36.4	37.1
132.5°	30.1	30.1	29.1	27.4	26.2	26.9	27.4	27.7	28.7	30.1	31.2
135°	26.2	26.2	25.1	22.5	20.3	20.0	19.6	21.5	23.3	24.7	25.7
137.5°	22.2	22.2	21.1	18.2	15.3	13.8	13.4	16.4	18.2	19.6	20.8
140°	18.6	18.2	17.2	14.2	10.9	8.7	8.7	11.7	13.4	15.0	16.4
142.5°	14.5	14.5	13.4	10.9	7.3	5.1	5.5	7.9	9.5	10.6	11.7
145°	10.9	10.9	9.9	7.3	4.4	2.5	2.9	5.1	6.2	7.3	8.4
147.5°	7.6	7.6	6.5	4.7	2.1	0.8	1.4	2.9	3.6	4.4	5.1
150°	4.7	4.7	4.1	2.5	1.1	0.0	0.3	1.4	1.8	2.1	2.9
152.5°	2.5	2.5	1.8	1.1	0.3	0.0	0.0	0.3	0.8	1.1	1.4
155°	1.1	1.1	0.8	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°	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8
2.5°	165.8	164.4	161.1	158.3	155.7	153.2	151.0	149.1	148.8	147.7	148.0
5°	168.5	165.5	159.4	153.9	148.0	143.3	139.8	136.5	133.9	132.8	132.4
7.5°	173.5	168.8	159.4	150.7	142.6	135.4	129.2	124.4	121.5	119.7	120.0
10°	180.9	174.6	161.9	149.9	138.6	128.8	120.8	114.9	110.6	108.8	108.8
12.5°	190.3	183.0	166.6	151.0	136.8	124.4	114.2	107.0	102.9	100.4	100.4
15°	205.5	195.0	174.6	154.6	136.8	122.0	110.6	102.6	99.0	97.1	96.8
17.5°	221.9	210.4	186.0	161.9	140.1	121.5	110.3	103.4	99.0	96.8	96.8
20°	239.8	225.9	198.0	170.2	145.6	125.8	113.2	104.8	99.3	96.3	96.0
22.5°	259.1	243.7	210.7	178.9	152.1	133.2	116.8	105.9	99.3	96.3	96.0
25°	280.5	262.0	223.8	188.8	160.8	139.8	121.2	107.3	99.3	95.7	95.3
27.5°	302.3	281.6	238.3	198.3	169.9	145.9	125.2	108.3	99.3	95.3	94.9
30°	326.0	301.2	252.5	209.2	178.3	151.4	128.4	109.5	99.3	94.9	94.6
32.5°	349.3	322.8	267.8	221.6	186.3	155.7	131.3	111.7	99.7	94.6	93.9
35°	375.1	345.7	284.2	234.0	193.6	159.7	133.9	113.2	99.3	93.9	93.5
37.5°	402.1	368.2	299.1	244.8	199.4	162.7	135.4	114.2	99.3	93.5	92.8
40°	429.0	391.1	315.1	255.7	204.9	165.2	136.8	115.4	99.0	92.8	92.0
42.5°	455.2	413.6	330.7	264.9	209.2	166.9	137.5	116.1	99.0	92.0	91.3
45°	482.1	436.6	347.1	273.5	212.5	167.7	137.5	116.1	99.3	91.3	90.5
47.5°	507.9	458.1	361.9	280.5	215.0	168.0	137.5	116.1	99.3	90.5	89.5
50°	530.8	477.7	374.4	286.4	216.5	168.0	137.1	116.1	99.3	89.5	88.4
52.5°	553.1	494.8	386.0	290.3	217.2	167.3	136.5	115.4	99.3	88.4	87.3
55°	570.9	510.1	394.0	293.0	216.5	166.3	134.9	114.6	99.0	87.3	85.9
57.5°	585.1	521.0	400.2	293.6	215.0	164.4	133.6	113.5	98.3	85.9	84.7
60°	594.2	527.1	402.1	292.2	212.8	161.9	131.6	112.4	97.1	84.4	82.9
62.5°	597.4	529.4	401.3	289.2	209.6	159.4	129.9	111.0	96.0	82.6	81.2
63°	597.4	529.1	401.0	288.6	208.4	158.7	129.5	110.6	95.7	82.3	80.8
65°	595.3	526.1	397.2	284.2	205.2	156.1	127.8	109.2	94.9	81.2	79.3
67.5°	586.1	518.4	389.0	277.6	199.7	152.4	124.8	107.0	93.1	79.3	77.5
70°	571.5	505.4	377.7	268.9	193.9	148.5	122.0	104.8	91.3	77.5	75.3
72.5°	550.1	487.2	363.5	258.7	187.1	144.1	118.6	102.2	88.8	75.3	72.7
75°	523.6	465.0	346.7	247.0	180.1	139.0	115.4	99.3	86.2	73.1	69.8
77.5°	492.2	439.1	327.4	235.0	172.1	133.9	111.3	96.0	83.7	70.9	66.9
80°	457.4	408.6	306.7	221.6	163.8	128.4	107.3	92.8	80.1	68.1	64.0
82.5°	422.4	378.0	284.8	207.7	155.3	123.0	102.9	89.1	76.8	65.1	61.0
85°	384.6	346.1	263.5	193.6	146.6	116.8	98.6	85.1	73.5	62.2	57.8
87.5°	348.2	313.6	239.8	179.7	138.2	111.3	94.2	81.2	69.5	58.6	55.2
90°	312.9	282.7	219.4	165.5	129.2	105.1	89.5	76.8	65.4	54.9	52.5
92.5°	278.7	251.4	197.2	152.4	120.8	99.3	84.4	72.4	61.5	51.7	49.5
95°	246.7	224.1	178.6	139.3	112.7	93.5	79.6	68.4	57.2	47.6	46.2
97.5°	216.5	198.3	160.5	128.1	104.1	87.7	74.7	63.7	52.8	44.0	43.2
100°	190.9	175.4	143.3	116.5	96.3	81.8	69.8	58.9	48.4	40.4	40.4
102.5°	166.9	153.2	127.4	105.6	88.8	75.7	64.4	54.2	44.0	37.1	37.1
105°	145.9	134.6	113.8	95.7	81.5	69.8	59.3	49.5	39.4	33.9	33.9
107.5°	126.6	117.9	101.2	86.7	74.2	63.7	54.2	44.4	34.5	30.6	30.9



REPORT NUMBER: P240254

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	111.0	104.1	89.9	77.5	67.3	58.6	49.5	39.7	30.1	27.7	27.7
112.5°	96.0	90.5	79.3	69.8	61.0	53.1	44.4	35.0	26.6	25.1	25.1
115°	84.0	79.6	70.3	62.2	54.9	47.6	39.4	30.1	23.0	22.2	22.5
117.5°	73.5	69.8	62.6	56.0	49.5	42.6	35.0	25.7	20.0	20.0	20.0
120°	64.0	61.5	54.9	49.5	44.0	37.4	30.1	21.9	17.5	17.5	17.8
122.5°	56.4	53.9	49.1	43.7	38.6	32.8	25.7	18.2	15.3	15.7	16.1
125°	48.7	47.3	42.9	38.2	33.5	27.7	21.5	15.0	13.4	13.8	14.2
127.5°	42.6	41.5	37.1	33.1	28.7	23.3	17.5	12.0	11.3	12.0	12.3
130°	36.4	35.6	32.3	28.4	24.0	19.2	13.8	9.9	9.9	10.6	10.6
132.5°	30.9	30.1	27.4	23.3	19.6	15.0	10.6	7.9	8.4	9.1	9.1
135°	25.7	25.1	22.5	19.2	15.3	11.3	7.9	6.5	7.3	7.6	7.6
137.5°	21.1	20.3	18.2	15.0	11.3	7.9	5.8	5.1	5.8	6.5	6.5
140°	16.1	16.1	14.2	11.3	7.9	5.5	4.1	4.1	4.7	5.1	5.1
142.5°	12.0	11.7	10.6	7.9	5.1	3.3	2.5	2.9	3.6	4.1	4.1
145°	8.4	7.9	7.3	5.5	2.9	1.8	1.4	2.1	2.5	2.9	2.9
147.5°	5.5	5.1	4.7	3.3	1.4	0.8	0.8	1.4	1.8	2.1	2.1
150°	2.9	2.9	2.5	1.4	0.8	0.0	0.3	0.8	1.1	1.1	1.1
152.5°	1.4	1.4	1.1	0.8	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)