

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: P240264

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240264
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-AF24-40-D-U-SL3-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 3672.4 lumens
Efficiency: N/A
Efficacy: 91.8 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 - G3

Input Watts (W): 40
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

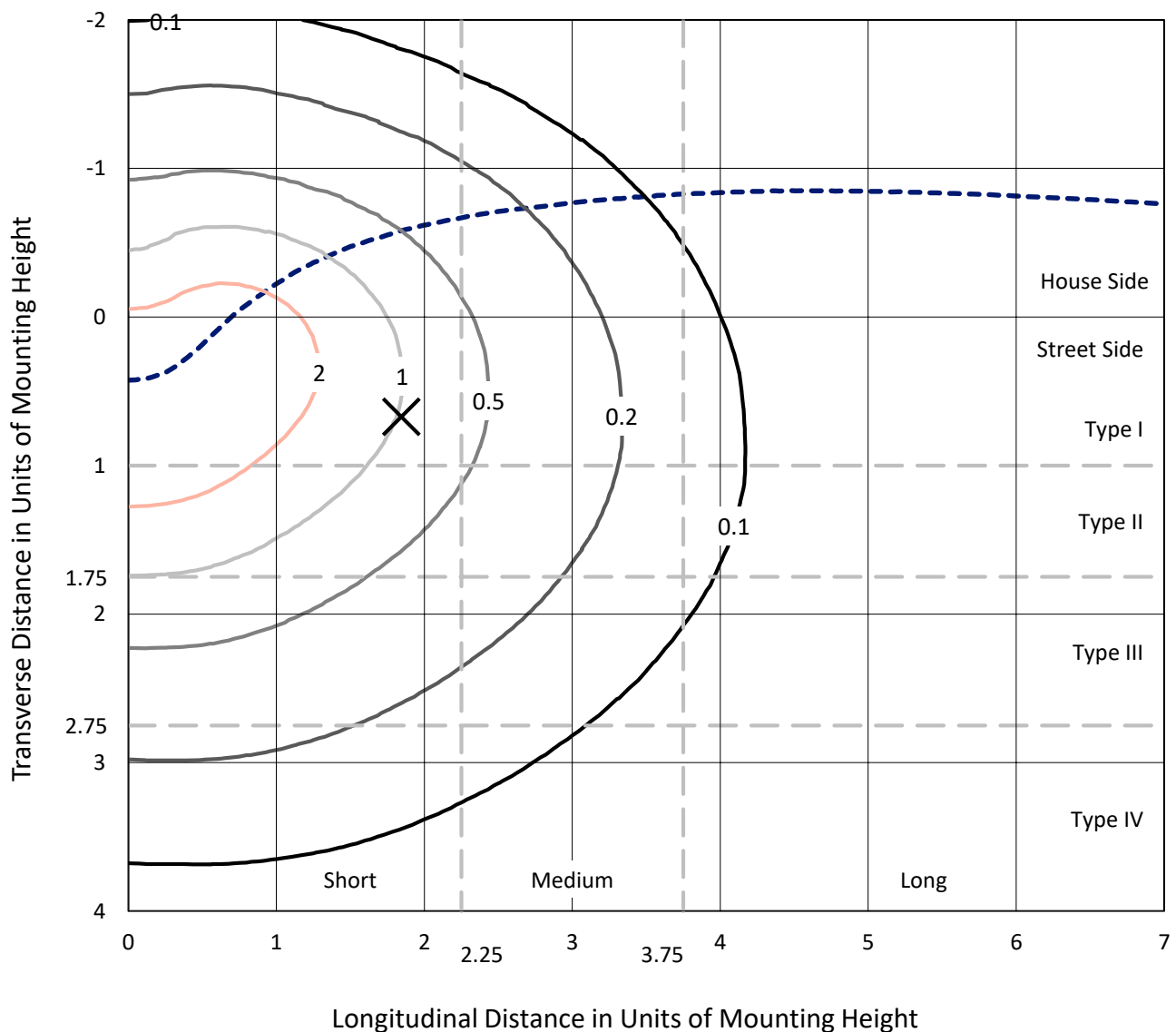


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

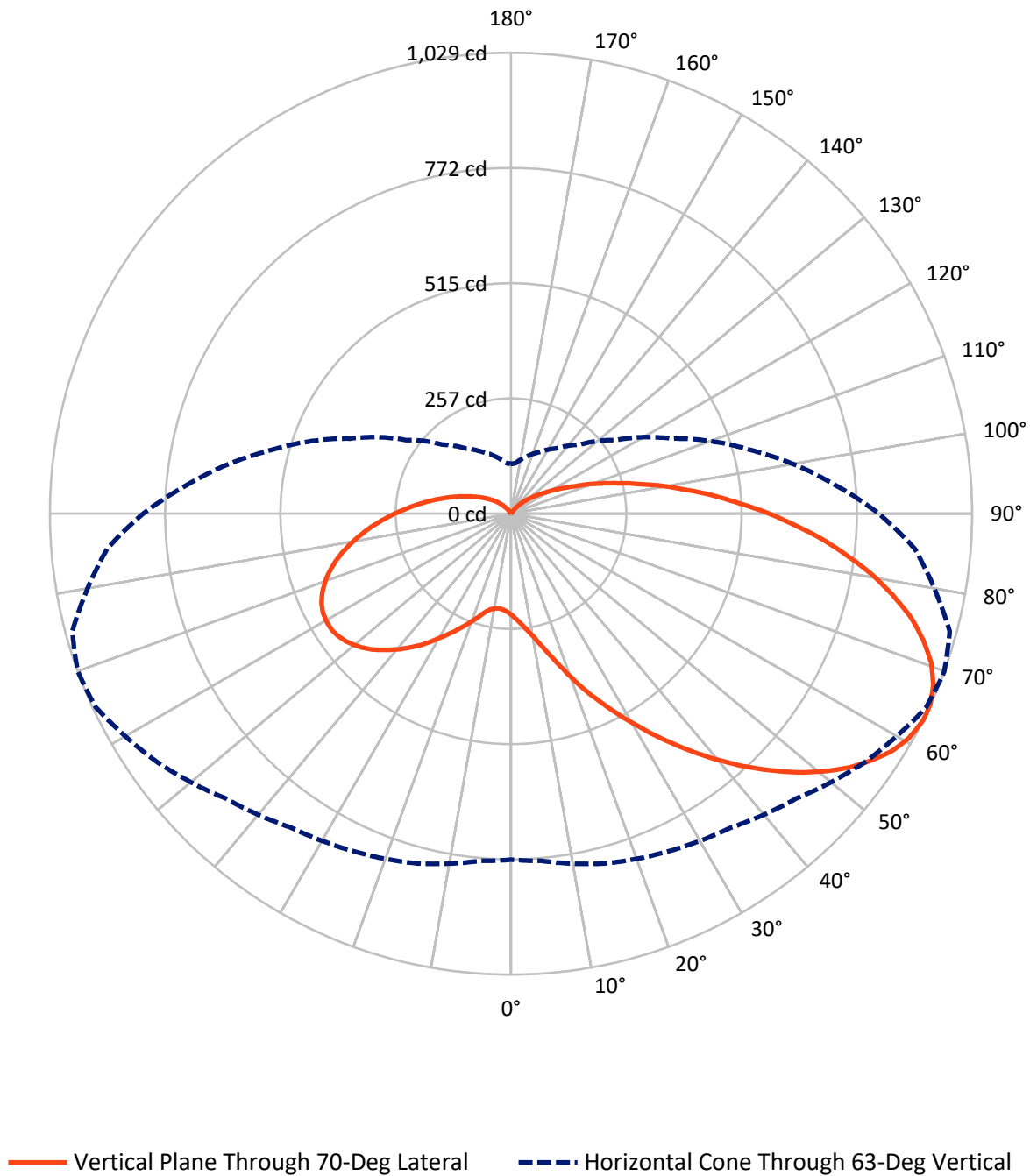


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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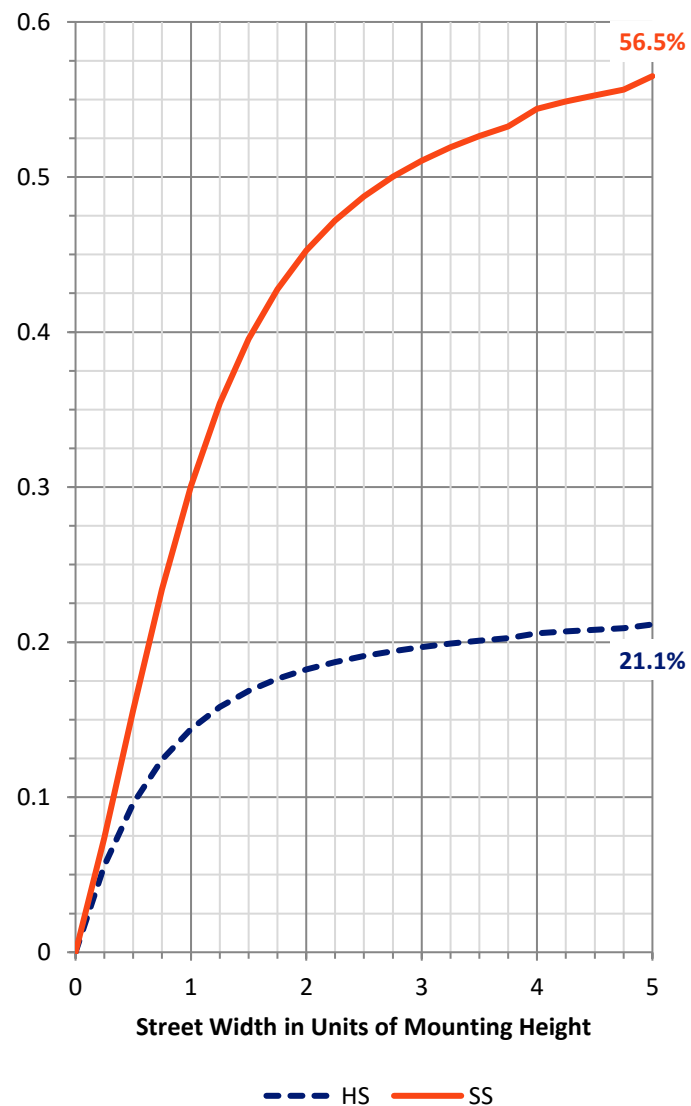
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	824.8	199.6	1024.4
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	2229.5	418.4	2648.0
	% Fixture	60.7	11.4	72.1
Total	Lumens	3054.4	618.0	3672.4
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	0.6
10°-20°	78.5	2.1
20°-30°	166.7	4.5
30°-40°	287.4	7.8
40°-50°	424.0	11.5
50°-60°	539.6	14.7
60°-70°	585.7	15.9
70°-80°	535.6	14.6
80°-90°	414.4	11.3
90°-100°	279.2	7.6
100°-110°	169.9	4.6
110°-120°	95.2	2.6
120°-130°	48.4	1.3
130°-140°	20.0	0.5
140°-150°	5.0	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3054.4	83.2
0°-180°	3672.4	100.0

Coefficient of Utilization



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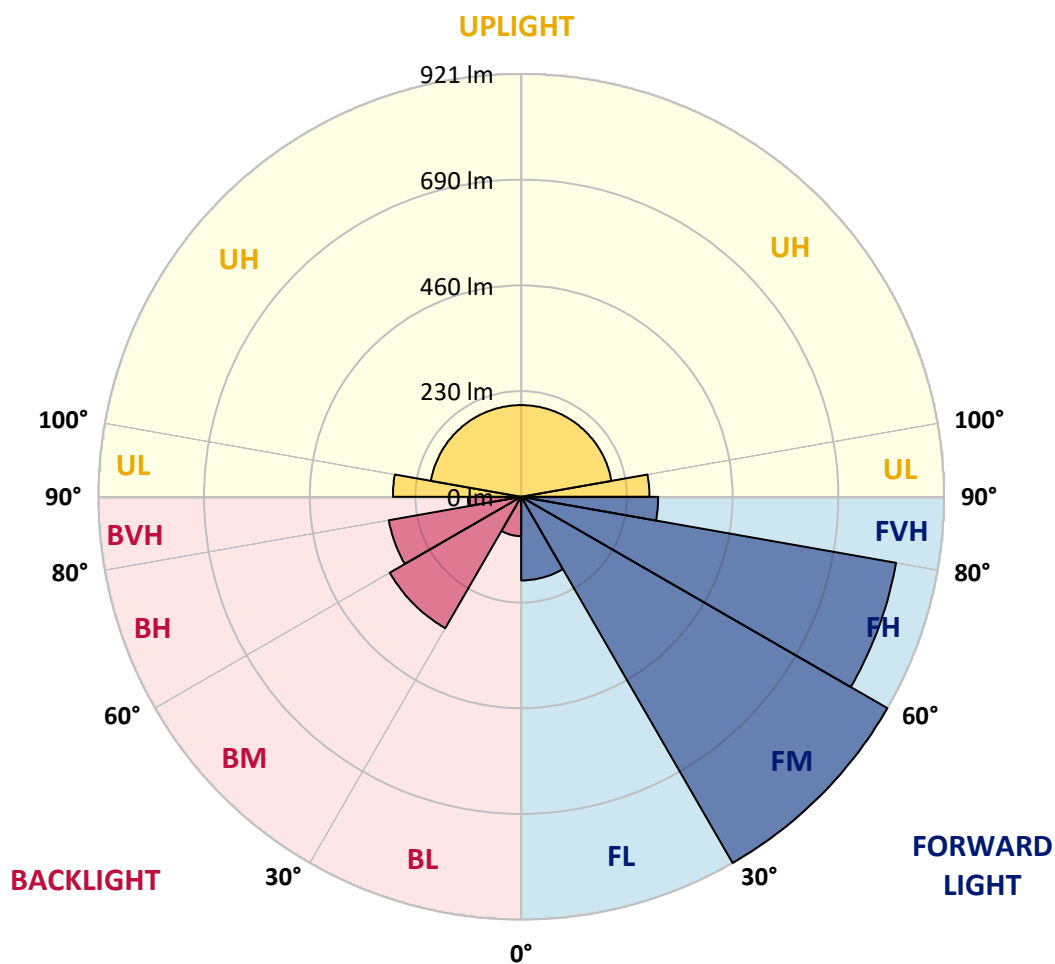
CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-FP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.0	5.0			
FM	(30°-60°)	920.6	25.1			
FH	(60°-80°)	828.7	22.6			G1/1800
FVH	(80°-90°)	298.3	8.1			G3/500
BL	(0°-30°)	85.7	2.3	B0/110		
BM	(30°-60°)	330.4	9.0	B1/1000		
BH	(60°-80°)	292.7	8.0	B1/500		G1/500
BVH	(80°-90°)	116.1	3.2			G2/225
UL	(90°-100°)	279.2	7.6		U3/500	
UH	(100°-180°)	199.6	5.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6
2.5°	252.6	252.1	251.5	249.1	248.1	244.6	241.6	238.0	236.1	234.1	230.1
5°	279.1	278.1	276.6	274.0	269.5	264.6	258.6	251.5	248.1	244.1	236.1
7.5°	305.1	304.6	304.1	299.1	294.6	286.6	278.1	268.1	263.1	256.6	244.6
10°	333.6	334.6	331.6	327.1	319.6	311.1	300.1	286.6	280.1	273.1	257.1
12.5°	366.1	365.6	363.1	355.6	347.6	338.1	324.6	310.1	302.6	293.1	272.6
15°	399.2	397.1	394.1	389.1	379.1	368.2	353.6	337.1	328.6	318.1	295.1
17.5°	433.6	432.1	430.2	421.7	413.2	399.7	387.6	369.6	359.2	347.6	321.1
20°	468.2	467.2	464.6	458.2	447.6	435.7	424.1	405.1	393.1	379.1	349.1
22.5°	504.6	504.2	501.7	494.2	485.7	478.1	463.7	442.1	430.7	413.7	378.6
25°	542.2	542.7	538.2	531.2	525.2	518.1	503.2	480.7	466.7	449.2	409.6
27.5°	582.7	580.7	577.7	571.2	566.2	558.2	542.7	519.7	506.2	487.1	443.1
30°	620.2	620.7	614.2	610.2	606.7	599.2	584.7	561.2	546.2	528.7	478.1
32.5°	660.7	658.7	654.2	650.2	647.7	639.8	626.3	605.7	590.7	568.7	513.6
35°	696.2	695.7	690.7	691.7	685.3	678.7	668.7	649.7	634.2	613.2	553.2
37.5°	732.7	731.7	728.2	729.3	721.7	716.8	710.2	693.8	680.8	659.2	594.2
40°	767.2	764.8	762.3	763.7	758.2	754.7	751.3	739.7	726.2	703.7	634.7
42.5°	795.2	794.7	793.3	795.8	790.2	789.3	791.3	785.2	773.2	750.2	675.8
45°	819.3	819.3	821.2	822.8	817.7	819.3	829.3	827.8	818.3	795.2	718.2
47.5°	838.3	837.8	842.8	844.8	842.3	847.8	864.3	871.2	863.3	841.8	757.8
50°	849.3	849.3	858.3	860.8	861.3	871.8	894.8	910.3	904.8	884.3	795.2
52.5°	852.3	853.2	865.8	871.2	873.3	889.8	921.3	944.8	942.9	923.3	829.3
55°	847.3	848.7	865.3	873.8	879.8	902.8	942.3	975.3	973.8	955.8	857.3
57.5°	833.3	835.2	856.3	868.8	879.8	909.8	957.8	999.3	1001.4	984.3	881.3
60°	811.3	813.8	839.2	855.8	872.8	909.3	965.9	1014.9	1019.4	1001.9	897.3
62.5°	780.7	783.8	813.2	836.3	859.3	902.3	966.3	1022.3	1028.4	1012.8	904.8
63°	772.7	778.3	808.7	831.8	855.8	899.8	965.9	1022.8	1029.3	1013.8	905.3
65°	741.7	747.8	782.8	809.8	838.8	888.3	958.8	1020.3	1028.4	1013.3	902.8
67.5°	698.3	706.2	743.3	776.2	813.2	867.8	943.4	1007.8	1016.8	1002.3	891.8
70°	648.8	659.7	698.8	739.7	780.7	840.3	919.3	986.3	994.8	979.8	869.8
72.5°	598.7	610.7	653.3	697.2	743.3	806.3	885.8	953.8	961.8	948.8	839.2
75°	548.2	557.2	601.2	652.2	702.3	766.8	848.7	912.3	921.3	905.8	801.3
77.5°	494.7	507.2	552.7	604.2	657.8	726.2	804.8	864.8	870.3	854.8	752.3
80°	442.1	456.1	500.6	556.2	612.7	678.7	753.7	812.2	815.3	798.7	699.7
82.5°	396.1	409.2	454.7	508.2	565.2	632.7	701.2	751.3	753.3	737.8	645.2
85°	351.6	363.1	406.6	461.7	519.1	581.6	647.2	689.8	692.2	673.7	587.7
87.5°	311.6	320.6	362.6	417.7	473.6	535.2	589.7	625.2	625.7	607.7	530.7
90°	277.1	282.6	323.6	377.7	430.7	485.7	536.6	567.7	563.6	544.7	471.7
92.5°	243.6	248.1	285.6	338.1	390.7	440.2	484.7	504.6	500.1	483.7	419.1
95°	216.6	218.6	253.1	302.6	349.6	396.6	434.7	449.2	444.7	427.2	367.1
97.5°	189.0	192.1	223.6	268.6	314.1	356.6	387.6	397.1	388.6	371.6	321.6
100°	168.6	169.6	196.1	239.1	282.1	319.1	343.6	349.6	340.6	325.1	280.1
102.5°	149.6	149.0	173.1	213.1	251.5	282.6	303.6	303.1	293.6	280.1	243.1
105°	133.1	132.6	151.1	188.0	222.6	250.1	265.6	263.6	254.1	241.1	211.5
107.5°	117.5	118.6	132.1	164.6	195.6	220.0	231.6	227.1	218.6	206.5	183.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	106.1	106.1	116.5	144.5	173.1	193.0	202.0	195.6	187.6	175.5	158.6
112.5°	95.5	95.5	103.0	126.0	152.0	170.0	176.0	167.6	158.0	150.1	137.6
115°	86.0	86.0	91.0	109.6	132.6	147.5	151.1	142.1	134.0	128.1	120.0
117.5°	78.1	78.1	81.0	94.0	114.6	128.6	130.5	120.5	115.1	109.0	104.5
120°	70.5	71.0	72.0	80.5	97.5	109.6	110.6	101.1	96.6	93.5	91.0
122.5°	64.0	64.0	64.5	69.6	83.1	93.0	93.0	85.0	82.0	81.0	79.1
125°	58.0	58.0	58.0	60.0	69.0	77.0	76.0	71.0	69.6	69.6	68.5
127.5°	52.5	52.1	51.6	52.1	56.6	62.0	62.0	58.5	58.5	59.0	59.5
130°	47.1	46.5	45.5	44.5	45.0	49.0	48.5	47.5	48.5	50.0	51.0
132.5°	41.5	41.5	40.0	37.5	36.0	37.0	37.5	38.1	39.5	41.5	43.0
135°	36.0	36.0	34.5	31.0	28.0	27.5	27.0	29.5	32.0	34.0	35.5
137.5°	30.5	30.5	29.1	25.0	21.0	19.0	18.5	22.5	25.0	27.0	28.5
140°	25.5	25.0	23.5	19.5	15.0	12.0	12.0	16.0	18.5	20.5	22.5
142.5°	20.0	20.0	18.5	15.0	10.0	7.0	7.5	11.0	13.0	14.5	16.0
145°	15.0	15.0	13.5	10.0	6.0	3.5	4.0	7.0	8.5	10.0	11.5
147.5°	10.5	10.5	9.0	6.5	3.0	1.0	2.0	4.0	5.0	6.0	7.0
150°	6.5	6.5	5.5	3.5	1.5	0.0	0.5	2.0	2.5	3.0	4.0
152.5°	3.5	3.5	2.5	1.5	0.5	0.0	0.0	0.5	1.0	1.5	2.0
155°	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
157.5°	0.5	0.5	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°	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6
2.5°	228.1	226.1	221.6	217.6	214.1	210.5	207.6	205.1	204.6	203.1	203.6
5°	231.6	227.6	219.1	211.5	203.6	197.0	192.1	187.6	184.0	182.6	182.1
7.5°	238.6	232.1	219.1	207.0	196.1	186.1	177.6	171.0	167.0	164.6	165.1
10°	248.6	240.1	222.6	206.0	190.6	177.1	166.0	158.0	152.0	149.6	149.6
12.5°	261.6	251.5	229.0	207.6	188.0	171.0	157.0	147.0	141.6	138.0	138.0
15°	282.6	268.1	240.1	212.6	188.0	167.6	152.0	141.1	136.1	133.5	133.1
17.5°	305.1	289.1	255.6	222.6	192.5	167.0	151.6	142.1	136.1	133.1	133.1
20°	329.6	310.6	272.1	234.1	200.1	173.1	155.6	144.0	136.6	132.6	132.1
22.5°	356.1	335.1	289.6	246.1	209.1	183.1	160.6	145.6	136.6	132.6	132.1
25°	385.7	360.1	307.6	259.6	221.1	192.1	166.5	147.5	136.6	131.6	131.0
27.5°	415.6	387.1	327.7	272.6	233.5	200.6	172.1	149.0	136.6	131.0	130.5
30°	448.2	414.1	347.1	287.6	245.1	208.1	176.6	150.6	136.6	130.5	130.0
32.5°	480.2	443.7	368.2	304.6	256.0	214.1	180.6	153.5	137.1	130.0	129.0
35°	515.7	475.2	390.7	321.6	266.1	219.5	184.0	155.6	136.6	129.0	128.6
37.5°	552.7	506.2	411.1	336.7	274.0	223.6	186.1	157.0	136.6	128.6	127.6
40°	589.7	537.7	433.1	351.6	281.6	227.1	188.0	158.6	136.1	127.6	126.5
42.5°	625.7	568.7	454.7	364.2	287.6	229.6	189.0	159.6	136.1	126.5	125.5
45°	662.8	600.2	477.2	376.1	292.1	230.6	189.0	159.6	136.6	125.5	124.5
47.5°	698.3	629.7	497.7	385.7	295.6	231.1	189.0	159.6	136.6	124.5	123.1
50°	729.8	656.7	514.6	393.6	297.6	231.1	188.5	159.6	136.6	123.1	121.5
52.5°	760.3	680.3	530.7	399.2	298.6	230.1	187.6	158.6	136.6	121.5	120.0
55°	784.8	701.2	541.7	402.6	297.6	228.5	185.6	157.5	136.1	120.0	118.0
57.5°	804.2	716.3	550.1	403.7	295.6	226.1	183.5	156.1	135.0	118.0	116.5
60°	816.7	724.8	552.7	401.6	292.6	222.6	181.1	154.6	133.5	116.0	114.1
62.5°	821.2	727.7	551.7	397.6	288.1	219.1	178.6	152.5	132.1	113.5	111.5
63°	821.2	727.2	551.2	396.6	286.6	218.1	178.1	152.0	131.6	113.0	111.0
65°	818.3	723.2	546.2	390.7	282.1	214.6	175.5	150.1	130.5	111.5	109.0
67.5°	805.8	712.7	534.7	381.7	274.6	209.6	171.5	147.0	128.1	109.0	106.5
70°	785.7	694.7	519.1	369.6	266.6	204.1	167.6	144.0	125.5	106.5	103.5
72.5°	756.3	669.7	499.7	355.6	257.1	198.0	163.1	140.6	122.0	103.5	100.0
75°	719.7	639.2	476.7	339.6	247.6	191.1	158.6	136.6	118.6	100.6	96.1
77.5°	676.7	603.7	450.2	323.2	236.6	184.0	153.0	132.1	115.1	97.5	92.1
80°	628.7	561.7	421.7	304.6	225.0	176.6	147.5	127.6	110.1	93.5	88.1
82.5°	580.7	519.7	391.6	285.6	213.6	169.1	141.6	122.5	105.6	89.5	84.0
85°	528.7	475.7	362.1	266.1	201.5	160.6	135.5	117.0	101.1	85.5	79.5
87.5°	478.6	431.2	329.6	247.0	190.1	153.0	129.5	111.5	95.5	80.5	76.0
90°	430.2	388.6	301.6	227.6	177.6	144.5	123.1	105.6	90.0	75.5	72.0
92.5°	383.1	345.7	271.1	209.6	166.0	136.6	116.0	99.5	84.5	71.0	68.0
95°	339.1	308.1	245.6	191.6	155.1	128.6	109.6	94.0	78.6	65.6	63.5
97.5°	297.6	272.6	220.5	176.0	143.0	120.5	102.5	87.6	72.5	60.6	59.5
100°	262.6	241.1	197.0	160.1	132.6	112.5	96.1	81.0	66.5	55.5	55.5
102.5°	229.6	210.5	175.0	145.1	122.0	104.0	88.5	74.6	60.6	51.0	51.0
105°	200.6	185.1	156.5	131.6	112.0	96.1	81.5	68.0	54.0	46.5	46.5
107.5°	174.1	162.0	139.0	119.1	102.0	87.6	74.6	61.1	47.5	42.0	42.6



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CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-FP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	152.5	143.0	123.6	106.5	92.6	80.5	68.0	54.5	41.5	38.1	38.1
112.5°	132.1	124.5	109.0	96.1	84.0	73.0	61.1	48.0	36.5	34.5	34.5
115°	115.5	109.6	96.6	85.5	75.5	65.6	54.0	41.5	31.5	30.5	31.0
117.5°	101.1	96.1	86.0	77.0	68.0	58.5	48.0	35.5	27.5	27.5	27.5
120°	88.1	84.5	75.5	68.0	60.6	51.6	41.5	30.0	24.0	24.0	24.6
122.5°	77.5	74.1	67.5	60.0	53.0	45.0	35.5	25.0	21.0	21.5	22.0
125°	67.0	65.1	59.0	52.5	46.0	38.1	29.5	20.5	18.5	19.0	19.5
127.5°	58.5	57.0	51.0	45.5	39.5	32.0	24.0	16.5	15.5	16.5	17.0
130°	50.0	49.0	44.5	39.0	33.0	26.5	19.0	13.5	13.5	14.5	14.5
132.5°	42.6	41.5	37.5	32.0	27.0	20.5	14.5	11.0	11.5	12.5	12.5
135°	35.5	34.5	31.0	26.5	21.0	15.5	11.0	9.0	10.0	10.5	10.5
137.5°	29.1	28.0	25.0	20.5	15.5	11.0	8.0	7.0	8.0	9.0	9.0
140°	22.0	22.0	19.5	15.5	11.0	7.5	5.5	5.5	6.5	7.0	7.0
142.5°	16.5	16.0	14.5	11.0	7.0	4.5	3.5	4.0	5.0	5.5	5.5
145°	11.5	11.0	10.0	7.5	4.0	2.5	2.0	3.0	3.5	4.0	4.0
147.5°	7.5	7.0	6.5	4.5	2.0	1.0	1.0	2.0	2.5	3.0	3.0
150°	4.0	4.0	3.5	2.0	1.0	0.0	0.5	1.0	1.5	1.5	1.5
152.5°	2.0	2.0	1.5	1.0	0.5	0.0	0.0	0.0	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.5	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	0.5	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)