

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: P240255

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240255
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 3472.3 lumens
Efficiency: N/A
Efficacy: 86.8 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

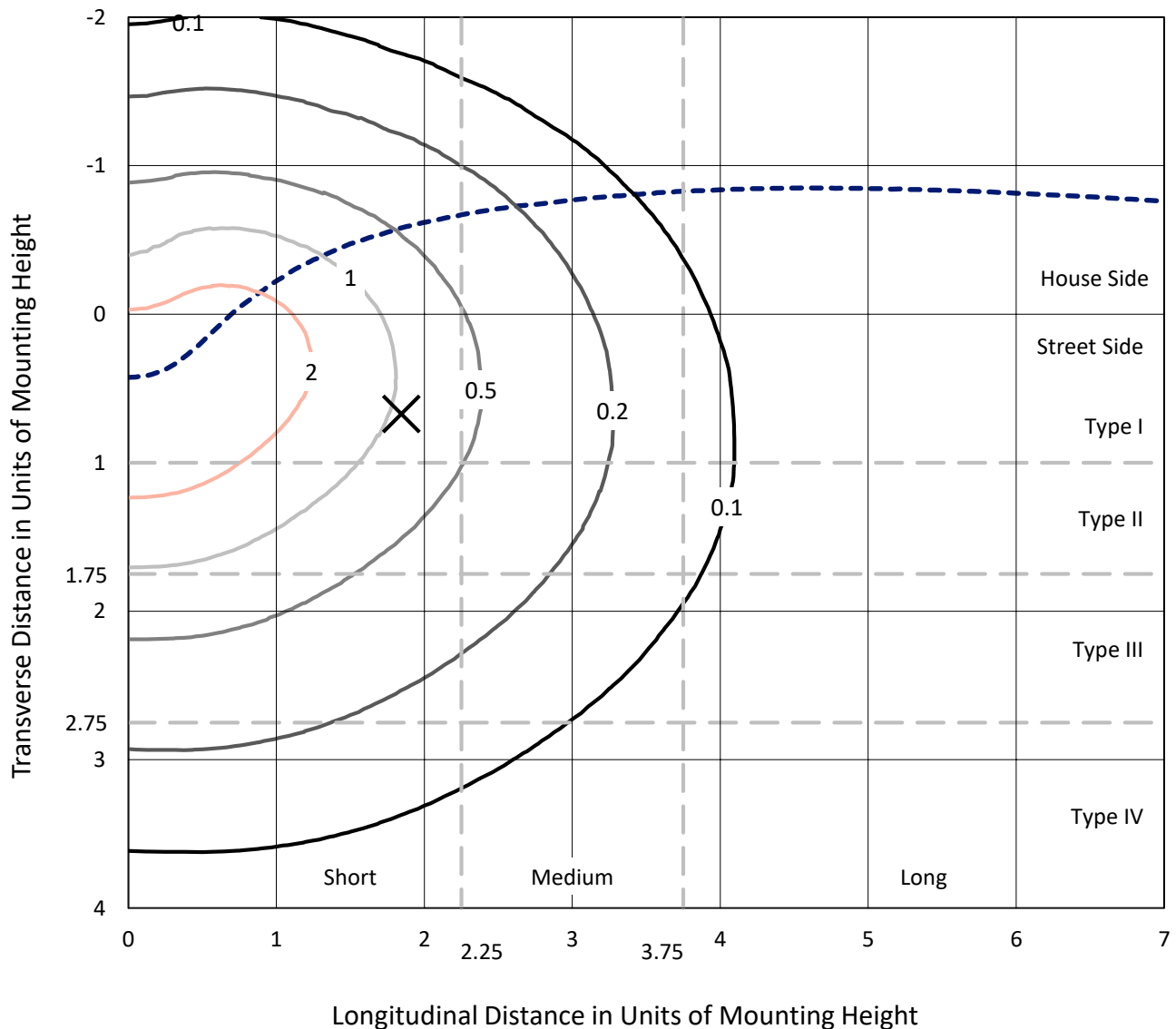


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

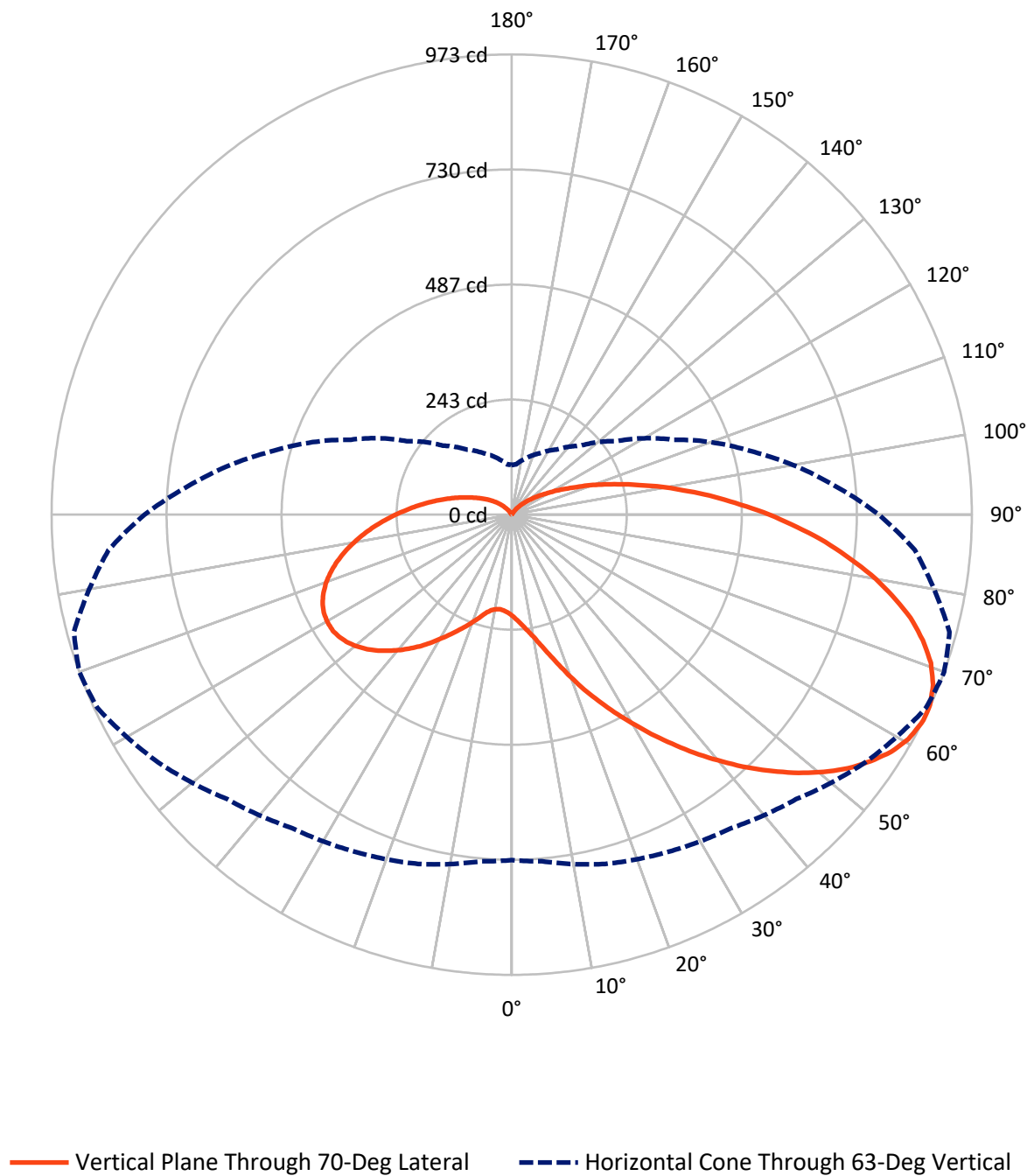


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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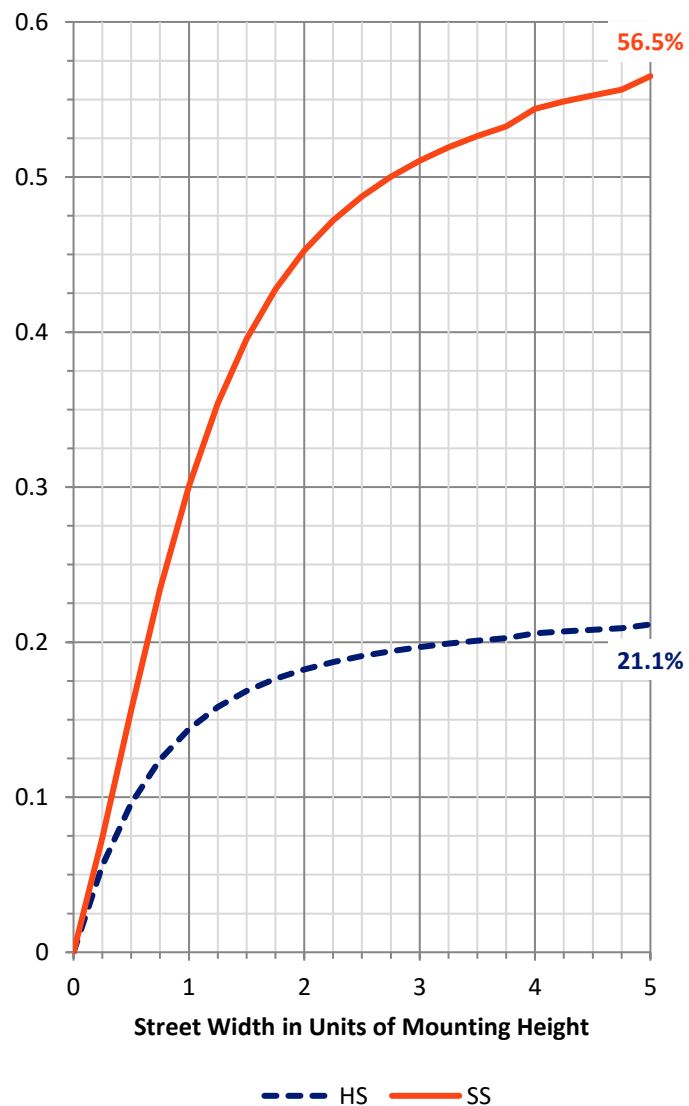
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.9	188.7	968.6
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	2108.1	395.6	2503.7
	% Fixture	60.7	11.4	72.1
Total	Lumens	2887.9	584.4	3472.3
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.6
10°-20°	74.2	2.1
20°-30°	157.6	4.5
30°-40°	271.7	7.8
40°-50°	400.9	11.5
50°-60°	510.2	14.7
60°-70°	553.8	15.9
70°-80°	506.5	14.6
80°-90°	391.8	11.3
90°-100°	264.0	7.6
100°-110°	160.6	4.6
110°-120°	90.0	2.6
120°-130°	45.8	1.3
130°-140°	18.9	0.5
140°-150°	4.7	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2887.9	83.2
0°-180°	3472.3	100.0

Coefficient of Utilization



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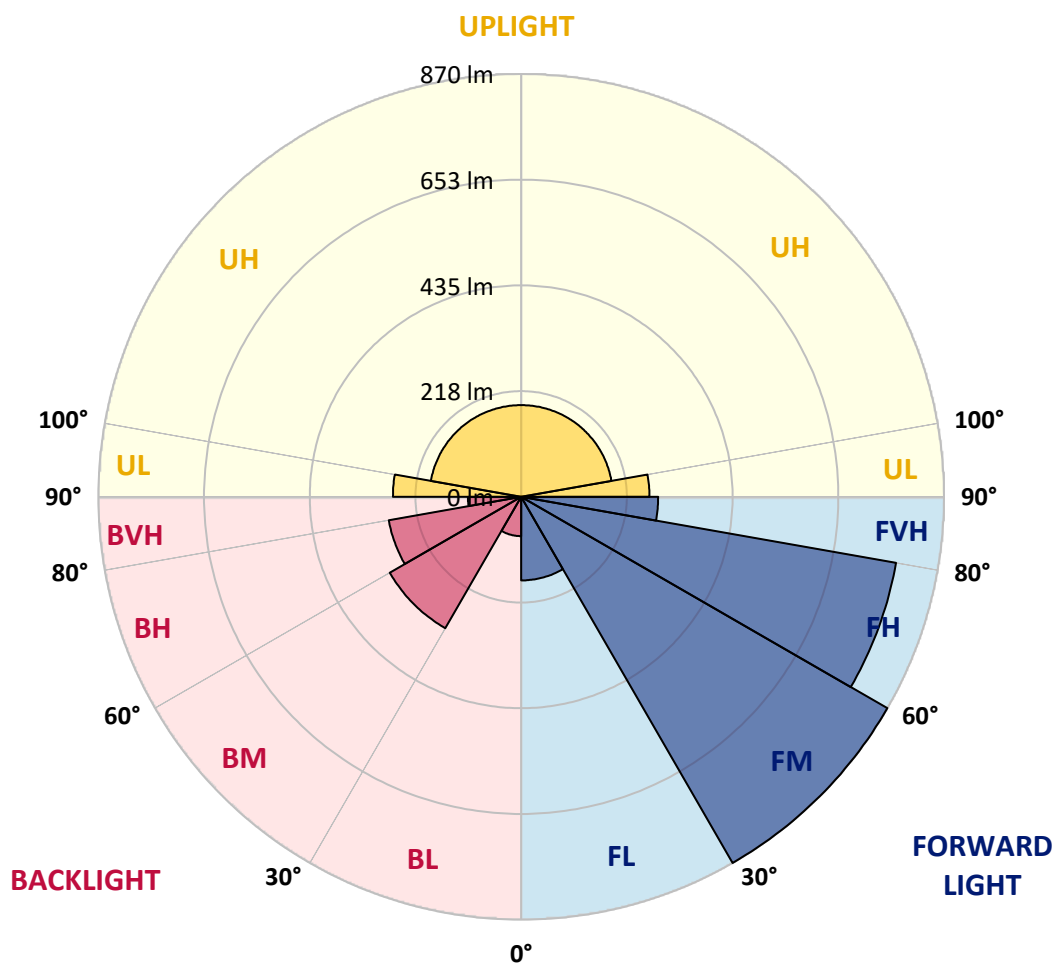
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.0	5.0			
FM	(30°-60°)	870.4	25.1			
FH	(60°-80°)	783.5	22.6			G1/1800
FVH	(80°-90°)	282.0	8.1			G3/500
BL	(0°-30°)	81.0	2.3	B0/110		
BM	(30°-60°)	312.4	9.0	B1/1000		
BH	(60°-80°)	276.7	8.0	B1/500		G1/500
BVH	(80°-90°)	109.7	3.2			G2/225
UL	(90°-100°)	264.0	7.6		U3/500	
UH	(100°-180°)	188.7	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°	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2
2.5°	238.8	238.3	237.8	235.6	234.6	231.3	228.5	225.1	223.2	221.4	217.5
5°	263.9	263.0	261.5	259.2	254.9	250.2	244.5	237.8	234.6	230.7	223.2
7.5°	288.5	288.0	287.6	282.8	278.5	271.0	263.0	253.5	248.8	242.5	231.3
10°	315.4	316.5	313.6	309.3	302.2	294.1	283.7	271.0	264.9	258.2	243.1
12.5°	346.2	345.7	343.3	336.2	328.7	319.7	306.9	293.3	286.2	277.1	257.8
15°	377.4	375.6	372.7	367.8	358.5	348.1	334.4	318.7	310.8	300.8	279.0
17.5°	410.0	408.6	406.7	398.7	390.6	377.8	366.4	349.5	339.6	328.7	303.6
20°	442.6	441.7	439.3	433.2	423.3	411.9	401.0	383.1	371.7	358.5	330.1
22.5°	477.1	476.7	474.3	467.2	459.2	452.2	438.3	418.0	407.2	391.1	358.1
25°	512.7	513.1	508.8	502.3	496.6	489.9	475.8	454.5	441.2	424.7	387.4
27.5°	550.8	549.0	546.2	540.1	535.4	527.7	513.1	491.3	478.5	460.6	419.0
30°	586.4	586.8	580.7	577.0	573.6	566.5	552.9	530.6	516.5	499.9	452.2
32.5°	624.8	622.8	618.5	614.8	612.4	604.9	592.0	572.7	558.6	537.7	485.6
35°	658.3	657.8	653.1	654.0	647.9	641.8	632.3	614.2	599.7	579.8	523.1
37.5°	692.8	691.8	688.6	689.5	682.5	677.6	671.5	655.9	643.6	623.4	561.8
40°	725.5	723.1	720.7	722.1	717.0	713.6	710.3	699.5	686.7	665.4	600.2
42.5°	751.9	751.4	750.1	752.4	747.3	746.2	748.1	742.4	731.2	709.3	638.9
45°	774.6	774.6	776.5	777.9	773.2	774.6	784.1	782.7	773.7	751.9	679.0
47.5°	792.5	792.1	796.8	798.8	796.4	801.6	817.1	823.9	816.2	796.0	716.4
50°	802.9	802.9	811.5	813.9	814.3	824.3	846.0	860.8	855.5	836.1	751.9
52.5°	805.8	806.8	818.6	823.9	825.7	841.3	871.2	893.3	891.4	873.0	784.1
55°	801.1	802.5	818.2	826.2	831.9	853.7	891.0	922.1	920.7	903.7	810.6
57.5°	787.9	789.7	809.6	821.4	831.9	860.2	905.6	944.9	946.7	930.7	833.3
60°	767.1	769.4	793.6	809.2	825.2	859.8	913.2	959.6	963.7	947.3	848.4
62.5°	738.3	741.0	768.9	790.7	812.5	853.1	913.6	966.6	972.3	957.6	855.5
63°	730.6	735.9	764.7	786.4	809.2	850.8	913.2	967.1	973.3	958.6	855.9
65°	701.3	707.0	740.1	765.7	793.1	839.8	906.6	964.8	972.3	958.1	853.7
67.5°	660.2	667.8	702.7	734.0	768.9	820.5	891.9	953.0	961.4	947.8	843.2
70°	613.4	623.8	660.7	699.5	738.3	794.6	869.1	932.5	940.6	926.4	822.4
72.5°	566.1	577.4	617.7	659.3	702.7	762.3	837.5	901.8	909.4	897.1	793.6
75°	518.3	526.8	568.4	616.7	664.0	724.9	802.5	862.6	871.2	856.5	757.6
77.5°	467.7	479.5	522.6	571.3	621.9	686.7	760.9	817.7	822.8	808.2	711.3
80°	418.0	431.2	473.4	525.9	579.3	641.8	712.7	768.0	770.9	755.2	661.6
82.5°	374.5	386.9	429.8	480.5	534.4	598.2	662.9	710.3	712.2	697.5	610.1
85°	332.4	343.3	384.5	436.5	490.9	550.0	612.0	652.2	654.5	637.0	555.7
87.5°	294.7	303.0	342.8	394.9	447.9	506.0	557.6	591.1	591.6	574.6	501.7
90°	262.0	267.2	305.9	357.1	407.2	459.2	507.4	536.8	532.9	515.0	446.0
92.5°	230.3	234.6	270.0	319.7	369.3	416.2	458.3	477.1	472.9	457.2	396.3
95°	204.8	206.6	239.3	286.2	330.5	375.0	411.0	424.7	420.4	403.8	347.1
97.5°	178.7	181.6	211.4	253.9	296.9	337.2	366.4	375.6	367.4	351.4	304.1
100°	159.4	160.3	185.4	226.0	266.7	301.7	324.9	330.5	322.1	307.3	264.9
102.5°	141.4	141.0	163.7	201.5	237.8	267.2	287.1	286.6	277.6	264.9	229.9
105°	125.7	125.3	142.8	177.8	210.5	236.4	251.1	249.2	240.3	228.0	200.1
107.5°	111.1	112.1	124.9	155.5	184.8	208.0	218.9	214.7	206.6	195.3	173.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	100.3	100.3	110.2	136.7	163.7	182.6	191.1	184.8	177.3	166.0	149.9
112.5°	90.3	90.3	97.5	119.2	143.7	160.8	166.5	158.4	149.4	141.8	130.0
115°	81.3	81.3	86.1	103.6	125.3	139.6	142.8	134.3	126.7	121.1	113.5
117.5°	73.8	73.8	76.6	88.9	108.2	121.5	123.5	113.9	108.8	103.1	98.9
120°	66.6	67.2	68.1	76.2	92.3	103.6	104.6	95.5	91.2	88.4	86.1
122.5°	60.5	60.5	60.9	65.8	78.5	88.0	88.0	80.5	77.6	76.6	74.8
125°	54.8	54.8	54.8	56.7	65.2	72.8	71.9	67.2	65.8	65.8	64.8
127.5°	49.6	49.1	48.7	49.1	53.4	58.7	58.7	55.2	55.2	55.8	56.3
130°	44.5	44.0	43.0	42.1	42.6	46.3	45.9	44.9	45.9	47.3	48.2
132.5°	39.3	39.3	37.8	35.5	34.1	35.0	35.5	35.9	37.3	39.3	40.7
135°	34.1	34.1	32.7	29.3	26.4	26.0	25.5	27.9	30.3	32.1	33.6
137.5°	28.9	28.9	27.5	23.6	19.8	17.9	17.5	21.3	23.6	25.5	27.0
140°	24.1	23.6	22.2	18.5	14.2	11.4	11.4	15.2	17.5	19.3	21.3
142.5°	18.9	18.9	17.5	14.2	9.5	6.7	7.1	10.4	12.3	13.7	15.2
145°	14.2	14.2	12.8	9.5	5.7	3.3	3.9	6.7	8.0	9.5	10.9
147.5°	10.0	10.0	8.5	6.1	2.8	1.0	1.8	3.9	4.7	5.7	6.7
150°	6.1	6.1	5.3	3.3	1.4	0.0	0.4	1.8	2.4	2.8	3.9
152.5°	3.3	3.3	2.4	1.4	0.4	0.0	0.0	0.4	1.0	1.4	1.8
155°	1.4	1.4	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	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°	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2
2.5°	215.7	213.7	209.4	205.7	202.4	199.1	196.2	193.9	193.4	192.0	192.6
5°	218.9	215.1	207.1	200.1	192.6	186.3	181.6	177.3	174.0	172.6	172.2
7.5°	225.6	219.4	207.1	195.8	185.4	175.9	167.9	161.7	158.0	155.5	156.0
10°	235.0	227.0	210.5	194.8	180.2	167.3	157.0	149.4	143.7	141.4	141.4
12.5°	247.4	237.8	216.6	196.2	177.8	161.7	148.5	139.1	133.9	130.6	130.6
15°	267.2	253.5	227.0	201.0	177.8	158.4	143.7	133.4	128.6	126.3	125.7
17.5°	288.5	273.3	241.7	210.5	182.0	158.0	143.2	134.3	128.6	125.7	125.7
20°	311.6	293.7	257.3	221.4	189.1	163.7	147.1	136.2	129.2	125.3	124.9
22.5°	336.7	316.9	273.8	232.7	197.6	173.0	151.8	137.6	129.2	125.3	124.9
25°	364.6	340.5	290.8	245.4	209.0	181.6	157.5	139.6	129.2	124.3	123.9
27.5°	393.0	366.0	309.8	257.8	220.8	189.7	162.7	141.0	129.2	123.9	123.5
30°	423.7	391.5	328.3	271.9	231.7	196.7	166.9	142.4	129.2	123.5	122.9
32.5°	454.0	419.4	348.1	288.0	242.1	202.4	170.8	145.2	129.6	122.9	122.1
35°	487.6	449.3	369.3	304.1	251.7	207.6	174.0	147.1	129.2	122.1	121.5
37.5°	522.6	478.5	388.8	318.3	259.2	211.4	175.9	148.5	129.2	121.5	120.6
40°	557.6	508.4	409.5	332.4	266.3	214.7	177.8	149.9	128.6	120.6	119.6
42.5°	591.6	537.7	429.8	344.2	271.9	217.1	178.7	150.9	128.6	119.6	118.6
45°	626.6	567.5	451.1	355.6	276.2	218.0	178.7	150.9	129.2	118.6	117.8
47.5°	660.2	595.4	470.6	364.6	279.4	218.5	178.7	150.9	129.2	117.8	116.4
50°	690.0	620.9	486.6	372.1	281.4	218.5	178.3	150.9	129.2	116.4	114.9
52.5°	718.8	643.2	501.7	377.4	282.3	217.5	177.3	149.9	129.2	114.9	113.5
55°	742.0	662.9	512.2	380.7	281.4	216.2	175.5	148.9	128.6	113.5	111.6
57.5°	760.5	677.2	520.2	381.7	279.4	213.7	173.5	147.5	127.8	111.6	110.2
60°	772.3	685.3	522.6	379.7	276.7	210.5	171.2	146.1	126.3	109.7	107.8
62.5°	776.5	688.2	521.6	376.0	272.4	207.1	168.8	144.2	124.9	107.4	105.4
63°	776.5	687.6	521.1	375.0	271.0	206.2	168.4	143.7	124.3	106.8	105.0
65°	773.7	683.9	516.5	369.3	266.7	202.9	166.0	141.8	123.5	105.4	103.1
67.5°	761.9	673.9	505.6	360.9	259.6	198.2	162.2	139.1	121.1	103.1	100.7
70°	743.0	656.8	490.9	349.5	252.1	193.0	158.4	136.2	118.6	100.7	97.9
72.5°	715.0	633.2	472.4	336.2	243.1	187.3	154.2	132.9	115.4	97.9	94.6
75°	680.4	604.4	450.7	321.1	234.2	180.6	149.9	129.2	112.1	95.0	90.8
77.5°	639.8	570.8	425.6	305.5	223.7	174.0	144.7	124.9	108.8	92.3	87.0
80°	594.5	531.1	398.7	288.0	212.8	166.9	139.6	120.6	104.1	88.4	83.2
82.5°	549.0	491.3	370.3	270.0	201.9	159.8	133.9	115.9	99.8	84.6	79.4
85°	499.9	449.7	342.4	251.7	190.5	151.8	128.2	110.7	95.5	80.9	75.2
87.5°	452.6	407.6	311.6	233.6	179.7	144.7	122.5	105.4	90.3	76.2	71.9
90°	406.7	367.4	285.1	215.1	167.9	136.7	116.4	99.8	85.1	71.4	68.1
92.5°	362.2	326.8	256.3	198.2	157.0	129.2	109.7	94.1	79.9	67.2	64.4
95°	320.6	291.2	232.1	181.2	146.6	121.5	103.6	88.9	74.3	62.0	60.1
97.5°	281.4	257.8	208.5	166.5	135.3	113.9	96.9	82.7	68.7	57.3	56.3
100°	248.2	228.0	186.3	151.4	125.3	106.4	90.8	76.6	63.0	52.5	52.5
102.5°	217.1	199.1	165.5	137.1	115.4	98.4	83.7	70.5	57.3	48.2	48.2
105°	189.7	175.0	148.0	124.3	106.0	90.8	77.1	64.4	51.1	44.0	44.0
107.5°	164.6	153.2	131.4	112.5	96.4	82.7	70.5	57.7	44.9	39.8	40.2



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CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	144.2	135.3	116.8	100.7	87.5	76.2	64.4	51.6	39.3	35.9	35.9
112.5°	124.9	117.8	103.1	90.8	79.4	69.1	57.7	45.5	34.5	32.7	32.7
115°	109.3	103.6	91.2	80.9	71.4	62.0	51.1	39.3	29.8	28.9	29.3
117.5°	95.5	90.8	81.3	72.8	64.4	55.2	45.5	33.6	26.0	26.0	26.0
120°	83.2	79.9	71.4	64.4	57.3	48.7	39.3	28.4	22.7	22.7	23.2
122.5°	73.3	70.0	63.8	56.7	50.1	42.6	33.6	23.6	19.8	20.3	20.8
125°	63.4	61.5	55.8	49.6	43.4	35.9	27.9	19.3	17.5	17.9	18.5
127.5°	55.2	53.9	48.2	43.0	37.3	30.3	22.7	15.7	14.6	15.7	16.1
130°	47.3	46.3	42.1	36.9	31.2	25.0	17.9	12.8	12.8	13.7	13.7
132.5°	40.2	39.3	35.5	30.3	25.5	19.3	13.7	10.4	10.9	11.8	11.8
135°	33.6	32.7	29.3	25.0	19.8	14.6	10.4	8.5	9.5	10.0	10.0
137.5°	27.5	26.4	23.6	19.3	14.6	10.4	7.5	6.7	7.5	8.5	8.5
140°	20.8	20.8	18.5	14.6	10.4	7.1	5.3	5.3	6.1	6.7	6.7
142.5°	15.7	15.2	13.7	10.4	6.7	4.3	3.3	3.9	4.7	5.3	5.3
145°	10.9	10.4	9.5	7.1	3.9	2.4	1.8	2.8	3.3	3.9	3.9
147.5°	7.1	6.7	6.1	4.3	1.8	1.0	1.0	1.8	2.4	2.8	2.8
150°	3.9	3.9	3.3	1.8	1.0	0.0	0.4	1.0	1.4	1.4	1.4
152.5°	1.8	1.8	1.4	1.0	0.4	0.0	0.0	0.0	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.4	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	0.4	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)