

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: P240048

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
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-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3632.5 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

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



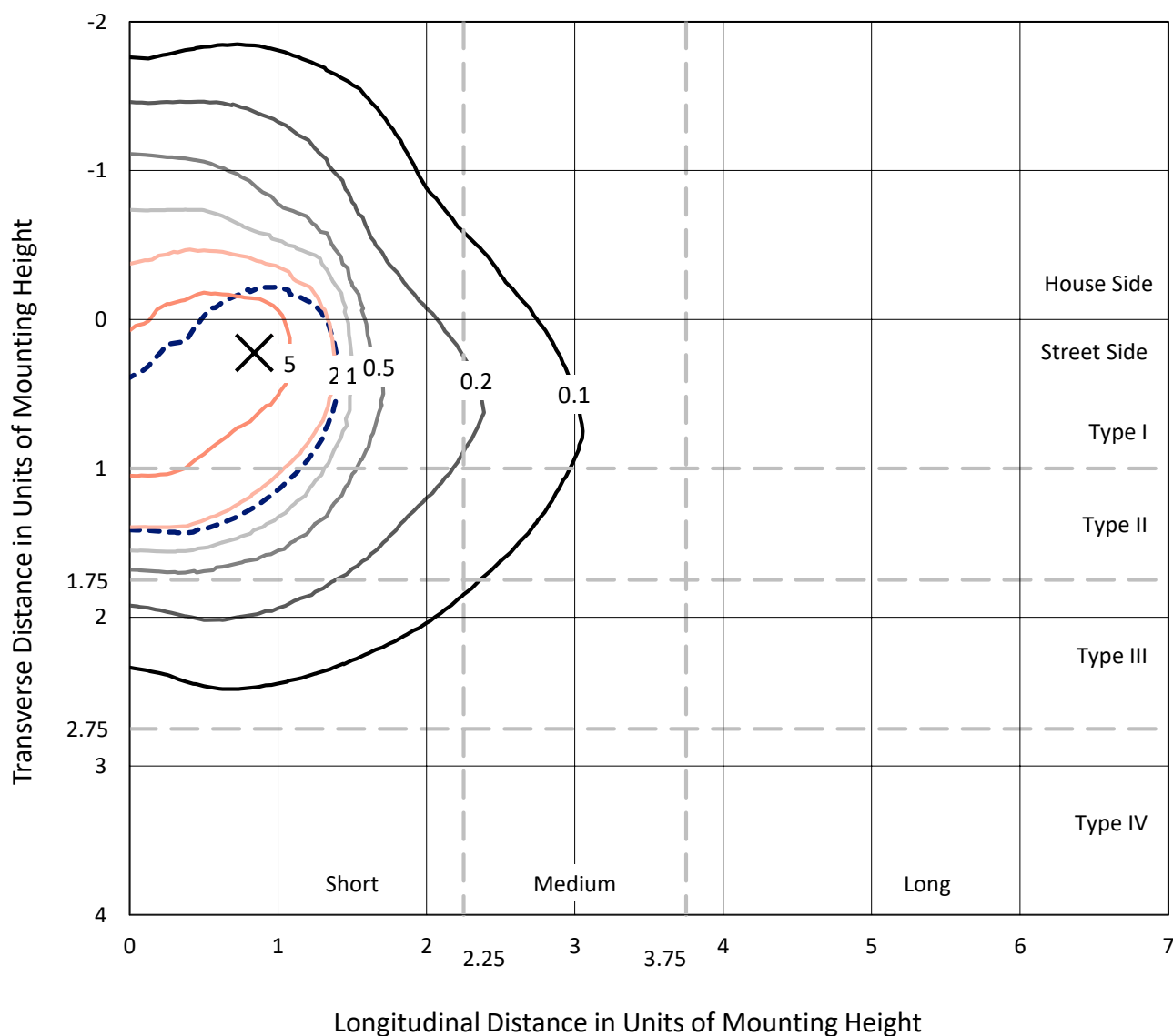
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

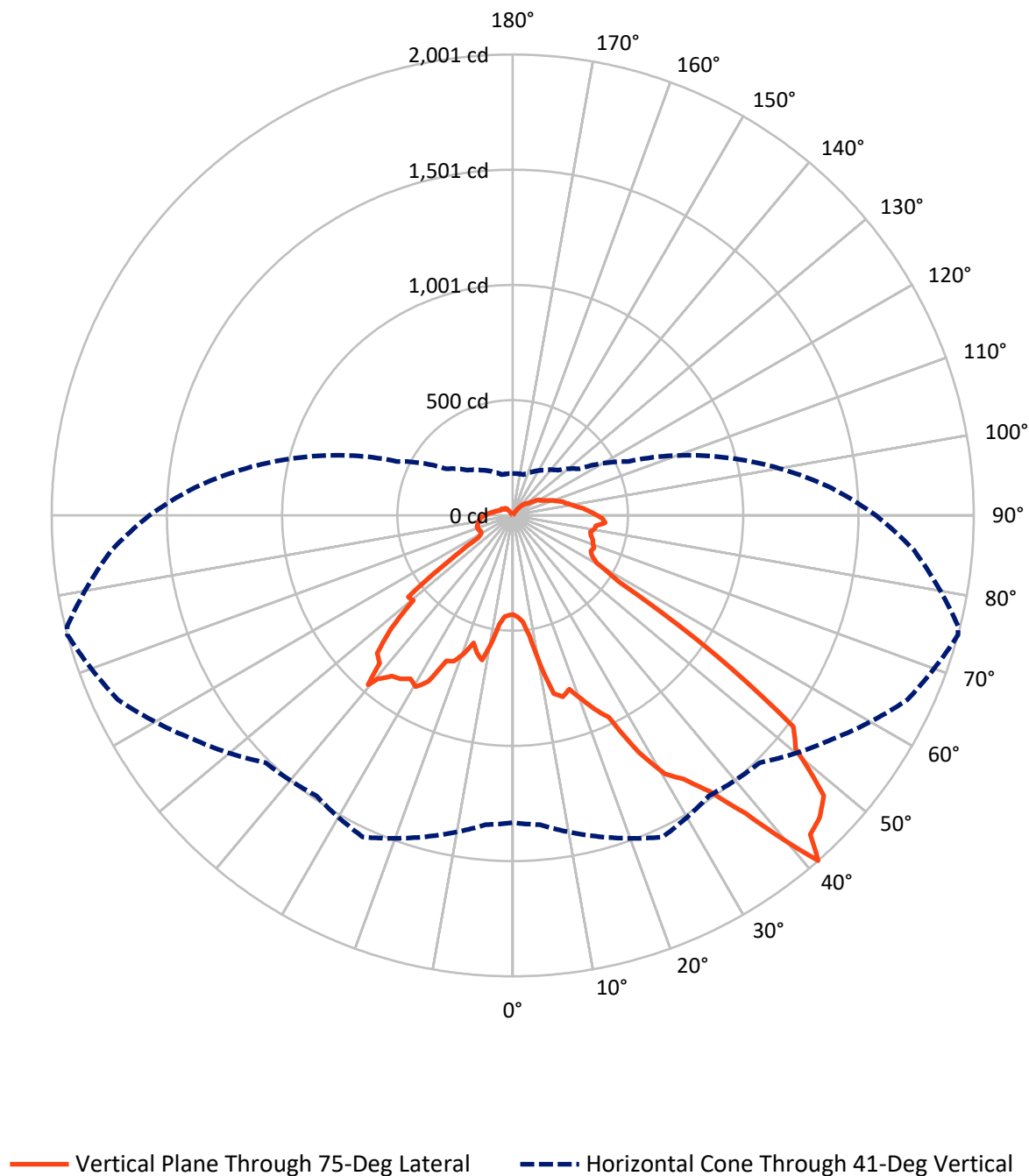


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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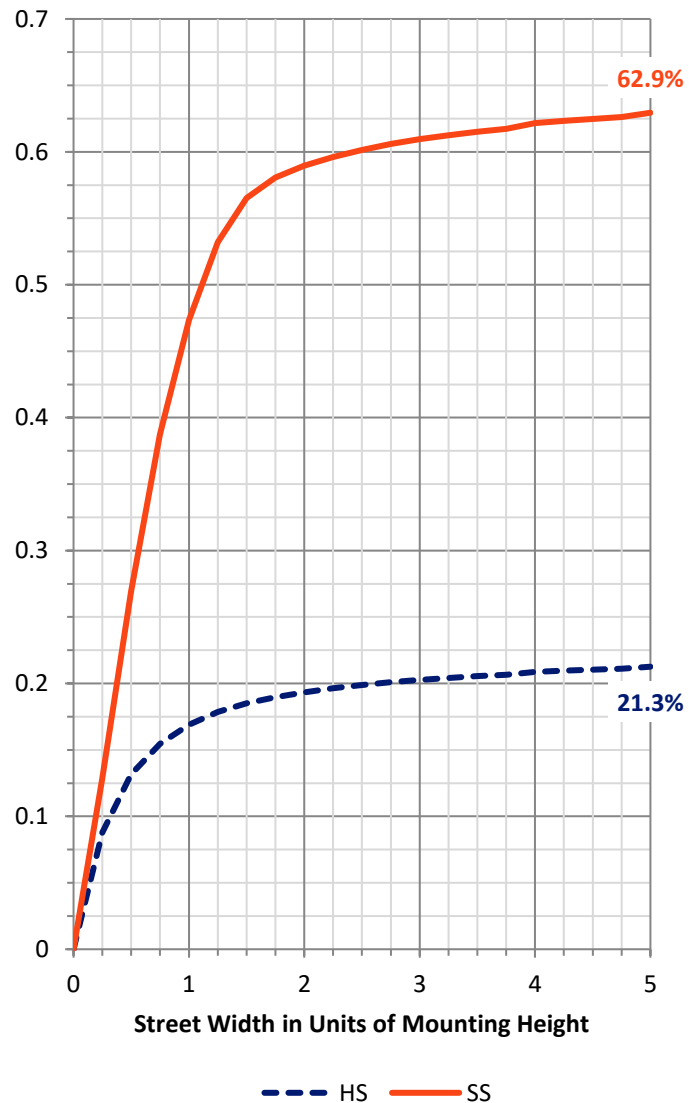
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	801.3	102.2	903.5
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	2356.6	372.4	2729.0
	% Fixture	64.9	10.3	75.1
Total	Lumens	3157.9	474.6	3632.5
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.2
10°-20°	179.8	4.9
20°-30°	369.3	10.2
30°-40°	601.2	16.6
40°-50°	780.9	21.5
50°-60°	553.7	15.2
60°-70°	225.1	6.2
70°-80°	203.6	5.6
80°-90°	198.9	5.5
90°-100°	170.6	4.7
100°-110°	123.6	3.4
110°-120°	84.3	2.3
120°-130°	54.8	1.5
130°-140°	32.7	0.9
140°-150°	8.3	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3157.9	86.9
0°-180°	3632.5	100.0

Coefficient of Utilization



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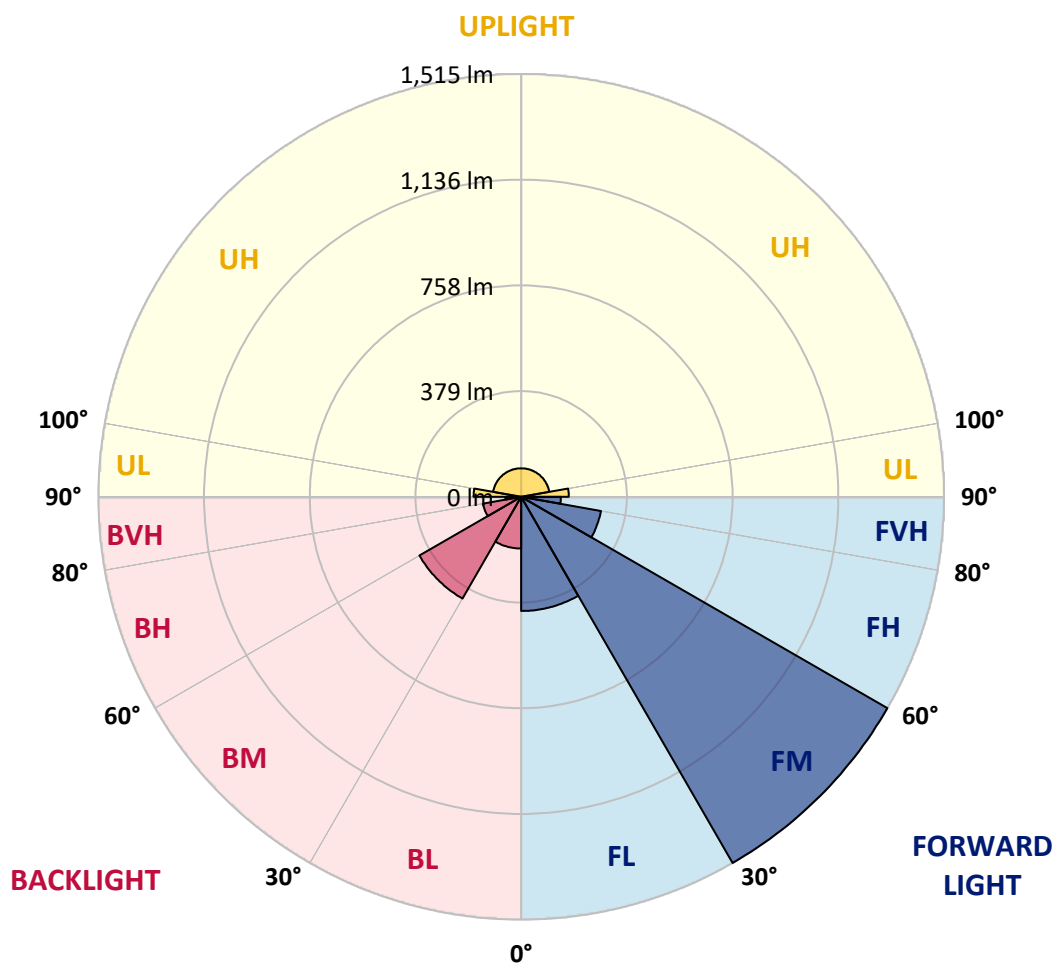
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.0	11.3			
FM	(30°-60°)	1515.0	41.7			
FH	(60°-80°)	290.1	8.0			G0/660
FVH	(80°-90°)	142.5	3.9			G2/225
BL	(0°-30°)	185.4	5.1	B1/500		
BM	(30°-60°)	420.9	11.6	B1/1000		
BH	(60°-80°)	138.6	3.8	B1/500		G1/500
BVH	(80°-90°)	56.4	1.6			G1/100
UL	(90°-100°)	170.6	4.7		U3/500	
UH	(100°-180°)	102.2	2.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9
2.5°	460.9	462.0	459.9	458.3	457.3	454.2	451.6	448.0	442.8	442.3	440.2
5°	502.8	502.8	502.8	499.2	495.0	488.4	482.6	474.3	464.5	464.0	456.2
7.5°	570.6	570.6	567.4	562.3	553.0	542.7	541.7	540.5	527.1	525.6	511.6
10°	643.5	641.4	643.0	647.1	651.8	665.7	674.5	675.6	661.1	657.5	637.3
12.5°	672.0	674.0	692.1	725.3	781.1	837.0	865.9	842.2	794.0	787.9	740.2
15°	715.5	718.0	748.0	803.3	896.5	977.1	952.4	892.8	816.8	811.1	737.6
17.5°	831.8	843.7	872.7	960.7	1055.3	1022.6	938.9	862.3	793.5	786.8	725.3
20°	913.5	920.2	976.1	1060.5	1127.2	1077.5	1020.1	943.1	850.4	850.4	802.3
22.5°	981.3	979.3	1024.8	1152.0	1190.8	1158.7	1092.0	1013.3	915.1	910.4	847.8
25°	1087.9	1094.6	1173.2	1313.9	1278.2	1196.4	1108.6	1036.7	972.0	966.3	903.7
27.5°	1149.9	1167.5	1258.0	1380.2	1357.4	1247.2	1170.2	1159.2	1163.9	1159.2	1091.0
30°	1165.4	1173.2	1284.9	1405.9	1390.5	1308.8	1308.8	1326.9	1303.0	1296.3	1204.7
32.5°	1204.2	1222.8	1329.9	1424.0	1386.3	1370.9	1379.1	1375.5	1365.1	1355.8	1249.2
35°	1267.3	1283.4	1383.7	1454.6	1385.8	1391.5	1466.0	1509.0	1471.7	1463.4	1304.6
37.5°	1433.5	1448.9	1539.4	1535.3	1422.5	1433.5	1568.4	1647.1	1640.3	1639.3	1482.1
40°	1400.3	1451.6	1561.2	1578.2	1477.3	1489.3	1650.6	1821.4	1900.0	1898.0	1702.9
41°	1334.1	1348.0	1443.8	1540.5	1486.1	1517.8	1693.6	1891.7	2001.4	1993.6	1749.5
42.5°	1357.9	1382.7	1439.6	1471.7	1475.8	1538.9	1727.3	1900.5	1894.8	1891.2	1691.6
45°	1560.6	1571.0	1594.8	1533.2	1429.3	1507.9	1708.6	1869.4	1868.9	1852.5	1762.4
47.5°	1462.9	1492.4	1593.8	1538.9	1424.7	1423.5	1555.5	1773.3	1816.8	1792.9	1568.9
50°	1383.7	1404.9	1463.9	1405.4	1355.3	1354.3	1478.4	1642.3	1592.7	1586.0	1278.2
52.5°	1227.5	1248.2	1290.1	1275.6	1247.2	1244.1	1338.7	1510.5	1526.0	1520.8	1290.1
55°	933.2	947.7	1105.4	1109.6	1088.4	1098.8	1175.3	1245.1	1071.3	1043.4	725.3
57.5°	548.3	585.5	738.7	834.4	878.4	886.6	860.3	736.6	543.7	524.1	334.7
60°	270.6	289.7	396.3	497.7	611.4	615.6	531.7	470.8	417.5	405.6	292.8
62.5°	192.9	204.3	274.2	328.0	391.6	401.9	372.5	397.8	386.4	379.2	285.0
65°	174.8	184.6	243.2	271.6	298.0	314.0	321.2	363.7	372.5	367.8	282.9
67.5°	159.9	169.7	221.9	243.7	263.3	289.2	304.6	346.6	380.2	377.1	300.0
70°	141.3	152.6	200.2	226.6	250.9	280.4	301.6	345.6	369.9	365.7	290.7
72.5°	123.7	134.0	172.8	203.8	239.5	273.1	304.6	336.8	363.7	360.1	294.3
75°	107.6	117.9	151.6	183.6	224.5	275.2	306.8	334.2	351.3	346.1	289.2
77.5°	96.8	107.1	136.1	167.6	213.1	278.3	335.2	345.6	345.0	339.8	282.9
80°	88.0	98.3	125.7	156.2	202.7	285.0	358.4	368.9	359.6	352.8	284.5
82.5°	85.3	95.1	120.5	154.2	204.9	289.2	365.2	391.1	364.7	356.4	282.9
85°	94.6	100.9	127.3	165.0	218.3	296.5	362.6	403.5	402.9	394.1	308.8
87.5°	112.7	117.9	143.8	182.1	232.8	300.5	394.7	411.2	389.5	385.3	311.9
90°	139.6	143.3	170.2	205.4	247.8	298.5	325.4	346.6	361.1	357.9	295.9
92.5°	166.0	170.7	195.0	220.9	240.0	256.6	282.9	332.0	334.2	331.5	284.5
95°	197.1	200.2	214.2	227.1	231.2	236.9	263.3	285.0	308.8	305.8	274.2
97.5°	214.2	215.7	221.9	220.3	210.5	211.5	241.0	264.3	278.9	275.2	240.0
100°	210.0	211.5	212.6	203.3	189.9	194.0	218.3	246.2	257.6	256.0	222.4
102.5°	196.6	199.2	199.7	190.4	178.0	179.0	202.7	224.0	235.9	233.8	207.5
105°	192.9	194.0	189.3	176.9	162.4	164.5	187.3	210.0	224.0	222.9	196.1
107.5°	173.8	174.8	168.1	156.2	151.1	156.7	177.4	191.9	201.2	201.2	174.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	145.9	145.9	144.3	141.8	142.8	151.1	168.1	177.4	185.2	184.6	159.9
112.5°	141.3	140.1	138.6	136.6	133.5	140.1	151.6	163.0	164.5	164.0	142.8
115°	139.1	137.6	132.5	126.7	123.2	128.3	137.1	147.4	151.6	151.1	136.1
117.5°	123.2	123.2	119.0	114.9	113.2	120.0	130.8	137.6	138.1	139.1	124.7
120°	110.2	110.2	107.6	105.6	106.6	109.7	121.5	127.3	132.5	131.9	119.5
122.5°	100.4	100.9	98.8	94.6	98.3	101.4	108.1	113.9	119.5	119.0	110.2
125°	90.5	90.0	88.0	83.3	91.6	95.7	96.3	95.7	101.4	101.4	93.6
127.5°	80.2	79.7	77.6	75.0	85.8	91.6	90.5	82.2	85.8	85.3	81.7
130°	79.2	78.7	75.0	71.9	77.0	87.0	82.2	76.5	79.7	80.2	76.5
132.5°	78.7	78.2	74.5	69.4	67.7	78.2	69.9	70.9	74.5	74.5	71.4
135°	73.4	72.9	69.9	62.6	55.3	64.7	55.3	61.1	65.7	65.7	63.1
137.5°	64.7	64.1	61.1	54.8	44.5	46.0	41.9	51.2	56.4	56.9	54.8
140°	51.2	51.8	48.6	42.5	32.1	24.3	27.4	39.8	45.0	45.0	44.5
142.5°	38.3	38.3	35.2	28.9	18.6	8.8	15.5	24.3	30.5	31.0	32.1
145°	26.9	26.9	23.8	18.6	9.3	1.5	7.3	14.5	19.1	19.1	20.7
147.5°	17.6	17.6	15.0	10.3	2.6	0.5	2.0	7.3	11.4	11.4	12.4
150°	10.8	10.8	8.3	3.1	0.5	0.0	0.5	1.5	5.2	5.2	6.8
152.5°	3.6	3.1	1.5	1.0	0.5	0.0	0.0	0.5	0.5	0.5	1.5
155°	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	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	0.5
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°	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9
2.5°	437.6	436.6	433.0	428.3	422.6	415.4	410.7	408.7	406.1	404.0	405.1
5°	452.1	448.5	440.2	425.2	411.2	400.9	392.6	385.3	381.8	378.7	378.7
7.5°	504.8	498.7	475.4	450.0	418.5	390.1	369.9	359.6	347.6	344.5	344.0
10°	619.7	611.9	562.8	501.8	442.3	386.4	335.7	308.3	295.3	288.7	290.2
12.5°	714.9	697.3	641.4	572.1	489.9	399.9	329.5	280.4	258.6	250.4	247.2
15°	707.2	677.6	617.1	551.5	487.3	421.6	351.3	295.9	250.9	235.9	232.8
17.5°	690.1	659.0	578.9	494.5	419.5	379.2	339.8	299.5	265.4	242.6	238.4
20°	776.9	741.8	637.3	553.5	448.0	346.1	301.1	278.3	256.6	245.2	242.6
22.5°	814.2	778.6	682.3	576.2	471.8	383.8	310.4	268.5	251.4	249.3	246.2
25°	870.1	825.1	694.2	560.8	459.9	388.0	310.9	269.5	244.2	244.2	242.6
27.5°	1050.6	984.9	810.6	622.8	477.4	373.0	303.1	257.6	227.1	215.2	212.6
30°	1131.3	1068.7	855.1	638.8	485.2	376.5	288.7	236.4	216.3	207.5	206.4
32.5°	1189.8	1108.1	836.5	600.1	445.9	351.8	276.2	228.6	208.5	200.7	198.7
35°	1218.7	1111.1	861.3	586.0	422.1	322.7	261.8	219.8	207.5	201.2	201.2
37.5°	1359.9	1226.5	873.7	582.5	404.0	294.8	248.8	220.3	194.0	185.2	185.7
40°	1555.0	1365.1	920.2	555.6	368.9	285.0	240.5	210.5	186.2	180.6	178.5
41°	1576.7	1385.3	966.8	555.1	352.3	277.8	240.0	209.5	183.1	182.1	181.6
42.5°	1518.8	1320.6	862.3	504.3	330.5	265.9	239.0	208.5	180.0	182.6	182.1
45°	1585.0	1388.5	839.0	462.0	292.8	246.2	226.6	202.7	178.0	173.3	173.8
47.5°	1377.0	1176.8	722.1	401.9	259.1	225.0	209.5	189.9	172.8	170.2	170.2
50°	1096.7	922.8	567.9	353.3	228.1	207.5	192.9	180.0	162.4	155.7	157.7
52.5°	1117.4	934.8	575.7	329.0	207.5	189.3	180.0	164.0	143.3	130.8	133.0
55°	614.6	532.9	336.8	252.5	192.4	175.8	165.0	148.4	125.7	111.7	113.2
57.5°	278.9	231.7	179.0	173.8	166.5	161.9	150.0	135.0	113.2	97.8	97.8
60°	249.3	204.3	159.9	145.4	148.9	149.5	137.1	122.5	101.4	83.3	83.8
62.5°	243.7	199.2	155.2	138.6	141.8	141.8	129.8	115.4	96.3	77.6	77.6
65°	242.6	197.1	155.7	136.6	138.6	139.1	127.3	115.4	102.4	89.0	90.0
67.5°	257.1	208.5	160.9	135.0	137.1	137.1	127.3	118.5	110.7	102.4	103.4
70°	249.3	204.9	159.9	135.0	134.0	134.0	126.7	119.0	114.9	107.6	108.1
72.5°	252.5	211.0	163.0	134.0	129.8	128.8	124.2	119.5	115.9	112.2	112.7
75°	247.8	209.0	157.7	128.8	123.7	121.5	118.5	117.4	117.9	116.4	115.4
77.5°	240.5	205.4	154.2	123.7	117.9	113.2	111.2	111.7	113.9	112.2	110.7
80°	239.5	205.9	152.6	120.5	110.7	102.9	100.4	101.4	101.9	98.8	95.7
82.5°	236.4	201.7	145.4	112.2	99.8	90.0	88.0	89.5	90.0	87.0	83.8
85°	254.5	212.6	143.3	104.4	90.5	80.2	76.5	77.0	73.4	68.8	65.7
87.5°	261.8	214.7	135.0	92.6	81.2	72.4	67.7	64.7	58.9	51.2	49.1
90°	248.8	203.8	121.5	79.7	71.4	64.7	58.9	54.8	47.6	39.8	37.2
92.5°	241.0	195.5	111.7	71.4	62.6	56.9	51.8	45.5	38.3	29.5	27.9
95°	236.4	192.4	105.6	63.6	55.9	50.2	45.0	39.3	32.1	25.4	24.3
97.5°	205.9	166.5	93.1	56.9	49.1	44.0	39.3	33.7	26.9	21.7	20.7
100°	191.4	155.2	86.3	51.2	43.5	38.8	34.7	30.0	24.3	20.7	20.2
102.5°	179.0	144.3	78.7	46.0	38.8	34.2	30.5	26.4	22.2	19.1	19.6
105°	169.7	137.6	75.5	42.5	34.7	31.0	26.9	23.8	19.6	17.6	17.6
107.5°	150.6	122.0	66.7	38.3	31.5	27.9	24.9	21.7	18.6	17.1	17.6



REPORT NUMBER: P240048

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	139.1	113.2	63.6	36.7	30.0	25.9	22.8	19.6	16.6	16.6	16.6
112.5°	123.7	101.9	58.9	34.7	27.9	24.3	21.2	17.6	14.5	15.0	15.5
115°	118.5	98.3	56.9	33.1	26.9	23.3	19.6	16.6	12.9	14.0	14.5
117.5°	109.1	91.0	55.3	33.1	25.9	21.7	18.6	15.5	12.4	13.4	13.4
120°	106.1	89.5	55.3	32.6	24.9	20.7	17.6	13.4	11.4	12.4	12.4
122.5°	98.8	83.8	52.8	32.1	23.8	19.6	17.1	11.4	9.8	10.8	10.8
125°	84.8	72.9	47.6	30.0	22.8	19.6	16.6	9.3	9.3	10.3	10.3
127.5°	74.0	64.1	43.5	29.5	23.3	20.7	15.5	7.8	8.3	9.3	9.3
130°	70.4	62.6	45.0	32.1	25.4	21.7	11.4	7.3	7.8	8.8	9.3
132.5°	66.7	60.6	46.0	34.7	26.9	21.2	9.3	6.8	7.3	8.3	8.3
135°	59.5	54.8	43.0	33.1	25.4	17.1	6.8	5.7	6.8	7.8	7.8
137.5°	52.3	48.6	39.3	30.5	23.3	13.4	4.7	5.2	5.7	6.2	6.2
140°	43.0	39.8	32.6	24.9	17.1	7.3	3.1	4.1	4.7	5.2	5.2
142.5°	31.0	28.9	23.3	16.6	9.8	2.6	2.0	3.1	3.6	4.1	4.1
145°	20.7	19.1	15.0	10.3	3.6	1.5	1.0	2.0	3.1	3.1	3.6
147.5°	12.4	11.9	8.8	4.7	1.5	1.0	1.0	1.5	2.0	2.6	2.6
150°	6.2	6.2	4.1	1.5	1.0	0.5	0.5	0.5	1.0	1.5	1.5
152.5°	1.5	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.5	0.5	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)