

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: P240966

Luminaire Tested: **UTLD-AF24-40-D-U-T3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4222.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U2 - G1

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

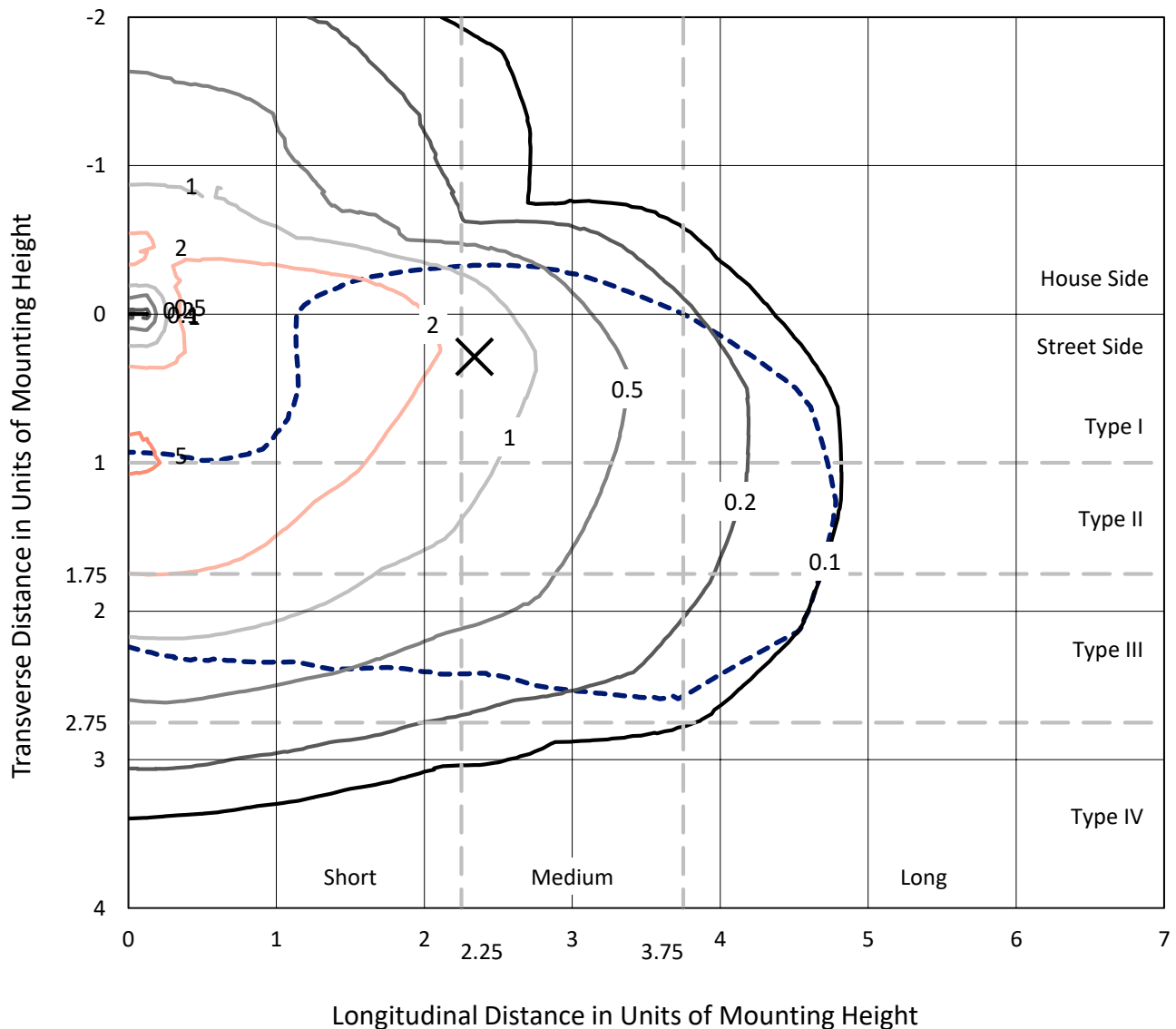


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

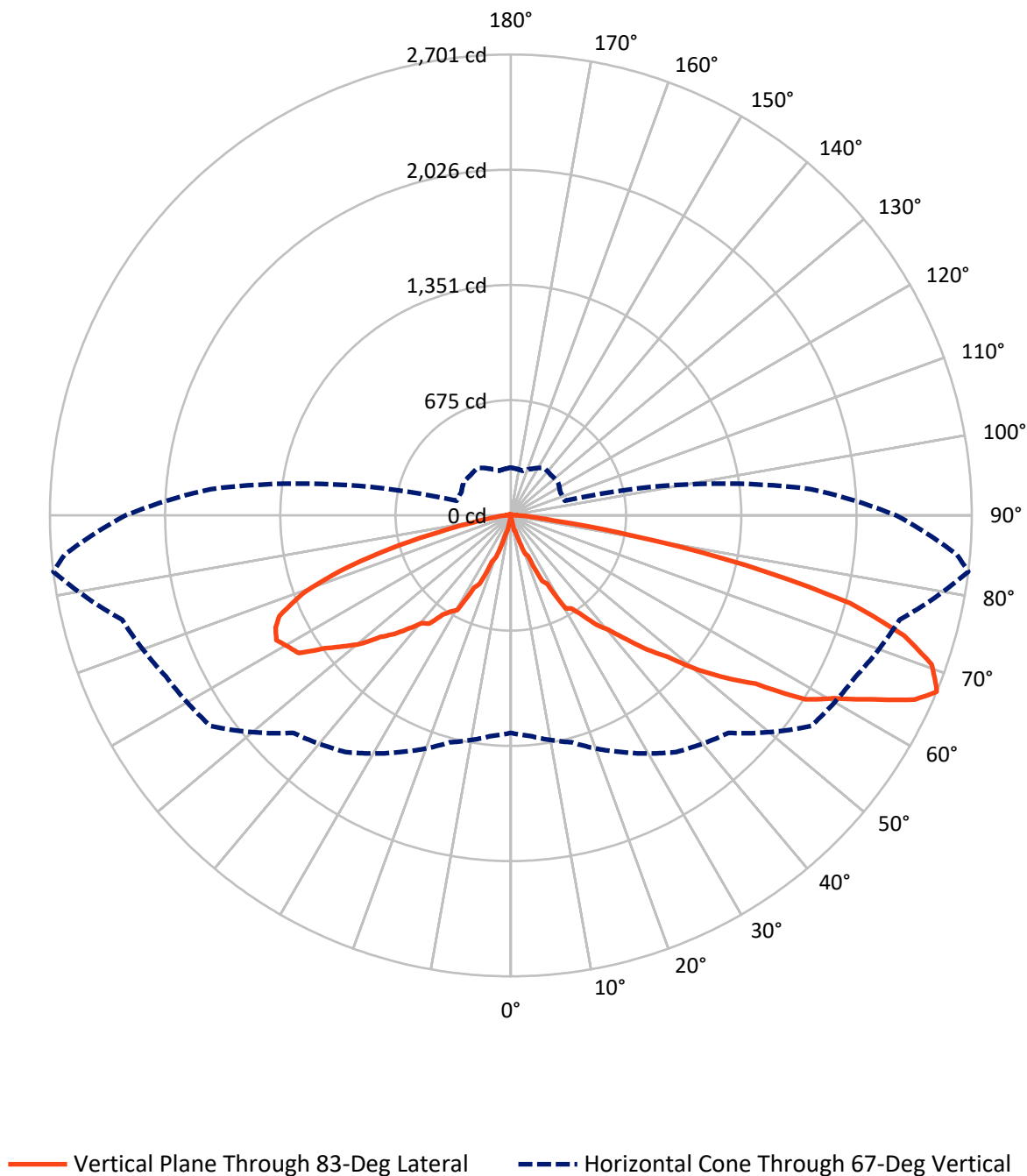


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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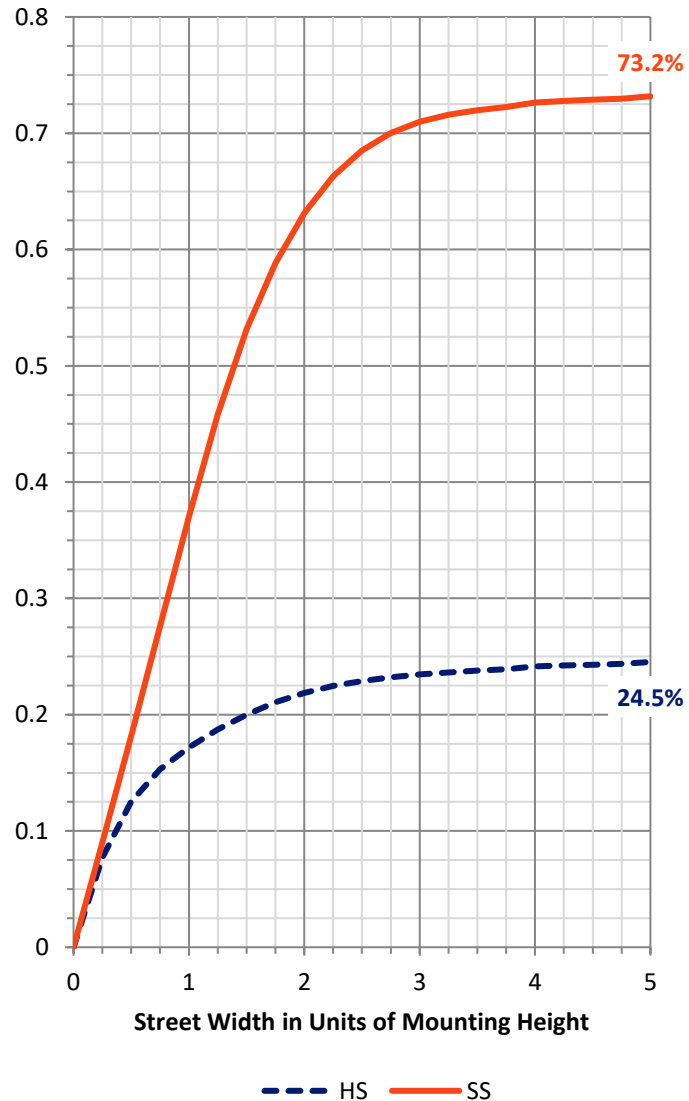
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.6	28.0	1087.6
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	3111.6	23.6	3135.1
	% Fixture	73.7	0.6	74.2
Total	Lumens	4171.1	51.6	4222.7
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	38.2	0.9
20°-30°	153.5	3.6
30°-40°	338.9	8.0
40°-50°	604.0	14.3
50°-60°	969.3	23.0
60°-70°	1179.4	27.9
70°-80°	760.0	18.0
80°-90°	124.9	3.0
90°-100°	25.7	0.6
100°-110°	11.7	0.3
110°-120°	5.9	0.1
120°-130°	4.3	0.1
130°-140°	2.6	0.1
140°-150°	1.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4171.1	98.8
0°-180°	4222.7	100.0

Coefficient of Utilization



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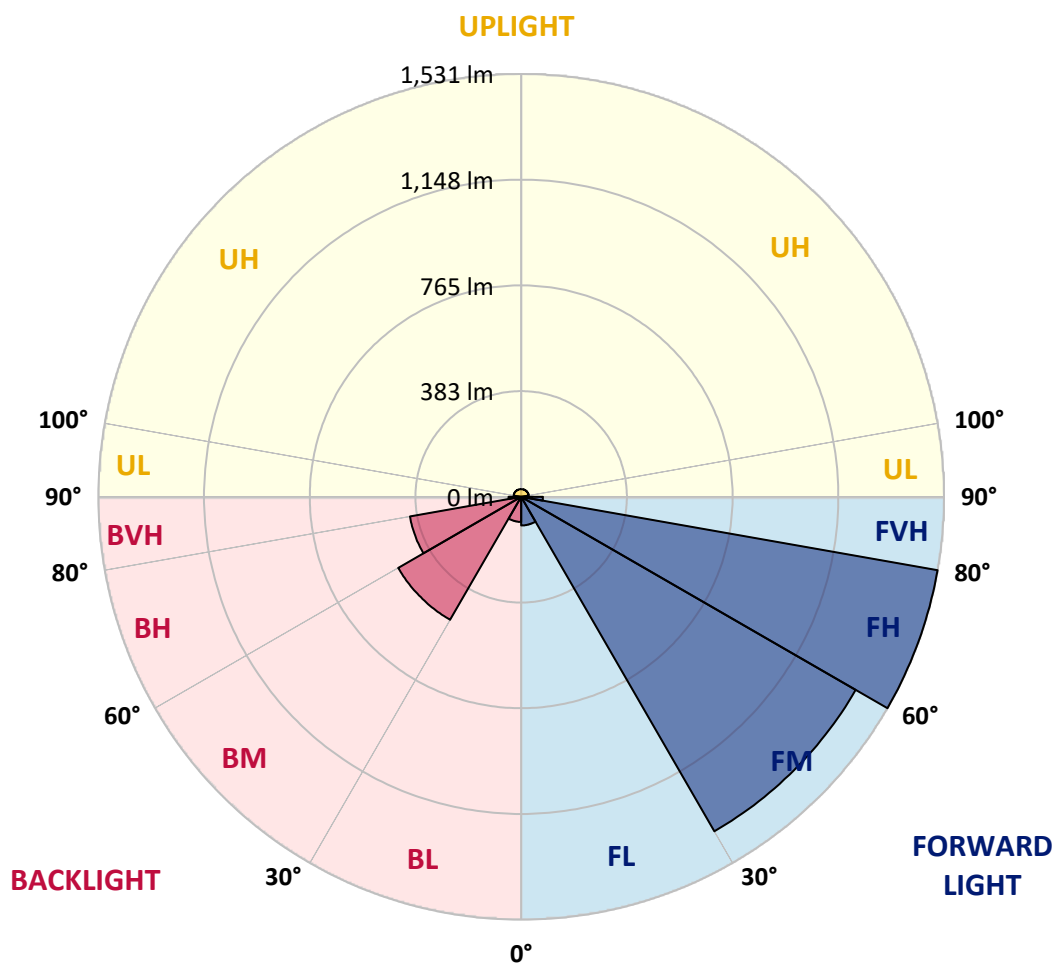
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.7	2.5			
FM	(30°-60°)	1398.2	33.1			
FH	(60°-80°)	1530.7	36.2			G1/1800
FVH	(80°-90°)	79.0	1.9			G1/100
BL	(0°-30°)	90.9	2.2	B0/110		
BM	(30°-60°)	514.1	12.2	B1/1000		
BH	(60°-80°)	408.7	9.7	B1/500		G1/500
BVH	(80°-90°)	45.9	1.1			G1/100
UL	(90°-100°)	25.7	0.6		U2/50	
UH	(100°-180°)	28.0	0.7		U2/50	

BUG Rating: B1-U2-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	21.2	21.2	21.2	19.1	16.6	13.4	11.9	10.3	9.8	9.8	9.8
5°	47.1	49.1	47.1	46.5	41.9	51.2	20.7	14.0	10.3	9.3	9.3
7.5°	66.7	67.8	54.8	50.7	40.9	55.9	45.0	25.4	12.9	10.3	9.8
10°	115.9	99.8	84.8	83.8	78.7	59.0	40.3	36.2	20.2	15.5	16.1
12.5°	112.2	115.4	113.3	109.7	100.9	84.3	53.8	69.4	76.0	89.5	84.3
15°	137.6	135.5	120.0	121.0	114.9	122.1	109.1	115.4	108.6	94.7	98.8
17.5°	213.2	205.9	215.7	165.5	121.0	148.5	151.1	135.0	144.3	149.0	165.5
20°	243.7	233.3	245.7	210.5	200.7	168.7	160.9	244.7	228.1	239.6	241.6
22.5°	336.8	331.1	295.4	241.1	256.7	215.2	229.8	254.0	259.2	256.7	264.8
25°	424.7	424.2	420.1	370.9	273.6	305.2	265.5	289.7	374.1	425.8	430.5
27.5°	502.9	498.7	469.2	455.3	383.4	344.5	316.6	401.5	428.4	453.2	458.9
30°	635.9	662.8	599.1	517.9	464.1	396.8	425.8	423.7	515.8	632.7	638.9
32.5°	746.5	731.5	665.3	597.0	542.2	490.5	448.6	591.9	617.2	649.3	663.8
35°	910.0	915.7	845.9	665.8	620.8	549.4	586.7	642.5	660.1	713.4	717.6
37.5°	950.9	995.9	955.0	798.3	660.1	600.7	631.2	703.1	761.1	810.2	779.2
40°	1131.0	1108.2	1020.8	894.5	741.3	672.6	771.9	814.4	823.2	880.6	887.8
42.5°	1307.3	1317.3	1209.0	1048.7	846.9	781.7	868.7	857.2	941.1	990.7	1017.6
45°	1479.2	1483.8	1398.5	1195.6	1016.1	963.8	921.4	970.1	1109.7	1121.7	1128.4
47.5°	1595.5	1596.1	1559.8	1356.0	1158.9	1041.0	1027.5	1079.7	1218.4	1239.6	1245.9
50°	1777.2	1772.5	1689.2	1463.1	1347.7	1193.6	1245.9	1226.1	1346.2	1422.7	1439.3
52.5°	1848.6	1825.3	1780.8	1618.8	1517.4	1364.8	1341.0	1376.7	1513.8	1583.1	1637.9
55°	1801.9	1842.3	1834.0	1717.6	1567.6	1515.4	1453.3	1587.3	1633.9	1740.4	1837.6
57.5°	1705.3	1774.5	1807.1	1763.7	1681.9	1563.5	1674.7	1654.5	1833.0	2034.8	2100.0
60°	1639.0	1681.9	1748.1	1800.9	1741.5	1698.0	1806.1	1911.7	1979.9	2176.5	2263.5
62.5°	1520.0	1560.9	1666.9	1743.5	1709.9	1724.4	1952.0	2007.3	2208.7	2372.6	2491.1
65°	1378.7	1417.1	1541.2	1621.4	1701.6	1758.6	2044.6	2151.7	2294.5	2601.8	2618.3
67°	1274.8	1297.0	1376.2	1530.3	1691.8	1802.4	2150.1	2230.9	2359.1	2701.1	2623.1
67.5°	1240.1	1261.8	1326.6	1486.3	1686.1	1809.2	2180.1	2254.2	2368.4	2690.8	2622.0
70°	954.5	1031.6	1033.2	1185.8	1505.5	1759.6	2233.4	2334.4	2424.9	2616.3	2531.5
72.5°	571.7	571.7	598.1	748.1	1067.3	1573.8	2233.4	2306.4	2384.5	2410.4	2267.6
75°	276.8	263.8	299.5	359.1	537.6	1061.6	2013.1	2113.9	2123.7	2053.4	1839.3
77.5°	228.1	198.1	188.3	184.1	288.2	397.3	1345.2	1650.4	1650.9	1408.8	1232.9
80°	142.8	144.3	148.5	127.8	165.0	205.4	536.5	1005.3	913.7	732.0	616.7
82.5°	100.9	104.5	106.1	94.7	115.4	96.3	178.5	424.2	369.4	255.0	216.3
85°	70.9	68.8	77.1	64.1	69.4	56.9	98.3	182.6	208.0	126.2	119.5
87.5°	42.5	42.5	51.8	43.5	47.6	40.9	59.5	89.5	103.5	71.4	66.7
90°	25.4	23.3	24.3	24.9	26.9	23.3	32.1	43.0	45.0	36.2	33.1
92.5°	19.1	19.1	20.7	19.6	24.3	21.2	27.9	33.7	40.9	31.0	28.9
95°	12.4	14.0	15.5	16.1	18.6	16.1	23.3	27.4	30.5	23.8	22.8
97.5°	11.4	12.4	13.4	13.4	15.5	12.9	19.1	24.3	24.3	18.6	17.1
100°	10.8	11.4	11.9	11.9	12.9	10.3	15.0	21.2	21.2	15.5	14.5
102.5°	9.8	10.3	9.8	9.3	10.8	8.3	12.4	18.6	15.0	11.9	12.4
105°	9.8	9.8	8.8	7.8	8.8	6.8	10.8	13.4	10.3	9.8	10.3
107.5°	9.3	9.3	7.3	6.8	7.3	5.7	8.8	9.3	8.3	9.3	9.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	8.8	8.3	6.8	5.7	5.7	5.2	6.8	6.8	6.8	8.8	9.8
112.5°	7.8	7.3	5.7	4.7	4.7	4.1	4.7	5.2	6.2	8.3	9.3
115°	7.3	6.8	5.2	4.1	3.6	3.6	4.1	4.1	5.7	8.3	9.3
117.5°	7.3	6.8	4.7	4.1	3.1	3.1	3.6	4.1	5.7	8.3	9.3
120°	6.8	6.8	4.7	3.6	3.1	2.6	3.1	3.6	5.7	8.8	9.3
122.5°	6.8	6.2	4.7	3.6	2.6	2.6	2.6	3.1	5.2	8.3	8.8
125°	6.2	6.2	4.1	3.1	2.6	2.0	2.6	3.1	5.7	8.3	8.8
127.5°	6.2	5.7	4.1	3.1	2.0	2.0	2.6	2.6	5.2	7.8	8.3
130°	6.2	5.7	4.1	2.6	2.0	2.0	2.0	2.6	5.2	7.3	7.8
132.5°	5.2	5.2	3.6	2.6	2.0	1.5	2.0	2.0	4.1	6.2	6.8
135°	5.2	4.7	3.6	2.6	2.0	1.5	1.5	2.0	4.1	5.7	5.7
137.5°	4.7	4.1	3.6	2.6	1.5	1.5	1.0	1.5	3.6	4.7	5.2
140°	4.1	4.1	3.1	2.6	1.5	1.0	1.0	1.5	2.6	3.6	4.1
142.5°	4.1	4.1	3.6	2.6	1.5	1.0	1.0	1.0	2.0	3.1	3.1
145°	3.6	3.6	3.1	2.0	1.0	0.5	0.5	1.0	1.5	2.0	2.6
147.5°	3.6	3.6	3.1	2.0	1.0	0.5	0.5	1.0	1.5	2.0	2.0
150°	3.1	3.1	2.6	1.5	0.5	0.0	0.0	0.5	1.0	1.5	1.5
152.5°	2.0	2.0	1.5	1.0	0.0	0.0	0.0	0.5	1.0	1.0	1.0
155°	1.0	1.0	1.0	0.0	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	0.0
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°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.3	9.3	9.3	9.3	9.3
5°	8.8	8.8	9.3	9.3	9.3	9.3	9.3	9.8	10.3	10.3	10.8
7.5°	9.8	9.8	9.3	9.3	9.8	10.8	17.6	37.2	70.4	65.2	64.7
10°	15.5	15.5	14.0	12.9	14.0	50.7	79.7	75.5	63.6	62.1	60.0
12.5°	98.3	91.6	74.0	46.5	67.8	64.1	74.5	87.5	113.9	119.5	115.4
15°	98.8	102.9	111.2	120.5	152.6	67.8	131.4	160.9	171.8	171.8	175.4
17.5°	171.8	185.3	142.3	128.3	152.1	186.3	146.9	163.5	161.9	162.4	157.8
20°	279.4	252.5	278.3	249.9	170.7	208.5	183.1	175.4	236.4	281.4	281.4
22.5°	276.8	293.4	289.7	287.1	300.5	185.3	233.8	254.0	263.3	251.4	269.5
25°	462.0	444.4	420.1	286.6	288.2	257.7	252.5	236.9	257.7	277.8	273.6
27.5°	483.2	487.3	441.3	426.8	302.2	289.7	237.9	275.8	300.5	302.2	299.5
30°	659.6	667.9	521.0	393.2	339.4	264.3	278.3	266.0	277.8	291.7	299.5
32.5°	698.0	685.5	575.3	442.8	332.7	279.9	256.0	266.0	311.0	311.0	308.3
35°	743.5	734.2	592.9	420.6	362.6	261.8	236.9	264.8	277.8	300.5	302.2
37.5°	835.0	829.8	650.8	419.6	322.8	247.3	260.8	267.5	271.6	276.8	272.1
40°	895.6	855.7	668.4	438.2	312.5	286.6	271.6	252.0	255.5	242.6	236.9
42.5°	1009.3	942.6	685.5	425.8	304.7	316.1	252.5	248.9	240.1	226.6	226.6
45°	1125.2	1039.9	708.3	400.5	293.9	306.8	260.2	254.5	246.7	244.7	240.1
47.5°	1243.2	1128.4	704.6	416.4	329.6	287.1	325.9	273.6	235.4	255.5	254.0
50°	1437.2	1272.2	707.8	384.9	328.6	281.9	326.4	259.2	252.0	267.5	269.0
52.5°	1595.5	1369.9	750.6	366.8	318.1	326.4	308.8	314.0	297.0	292.4	298.0
55°	1784.9	1495.1	722.7	345.0	309.9	307.8	363.7	316.1	300.5	315.6	317.1
57.5°	2022.4	1669.6	729.0	309.9	312.5	296.5	356.0	353.8	344.5	337.4	334.7
60°	2160.0	1725.4	671.1	330.6	302.7	326.9	377.7	366.8	317.6	368.9	377.2
62.5°	2268.1	1812.4	528.8	326.9	336.2	312.0	346.7	358.0	334.7	373.6	378.2
65°	2294.5	1807.7	405.1	335.7	332.7	346.7	410.3	351.8	292.4	298.0	300.5
67°	2258.3	1766.8	328.6	319.8	337.4	333.7	339.4	302.2	270.1	275.8	279.9
67.5°	2237.6	1733.7	311.5	318.6	348.7	333.2	332.7	290.7	263.8	271.1	272.6
70°	2045.1	1553.1	260.8	314.6	345.6	302.7	311.0	256.0	232.8	235.4	236.4
72.5°	1751.3	1246.4	248.9	313.0	339.4	252.5	239.1	209.5	198.1	194.6	189.3
75°	1344.2	858.9	245.7	282.4	278.9	190.9	191.4	174.3	175.4	167.7	164.5
77.5°	809.7	481.2	209.0	239.1	209.0	145.9	158.4	154.7	158.9	150.6	145.4
80°	388.0	234.9	165.0	175.9	147.4	114.4	135.0	140.8	141.8	129.8	124.2
82.5°	166.0	121.6	111.7	110.2	105.1	88.5	109.1	114.9	115.9	108.6	87.0
85°	97.8	82.8	77.1	74.0	72.9	54.8	78.2	92.6	92.6	76.6	66.2
87.5°	61.1	60.6	54.3	54.3	56.9	38.8	53.8	63.6	60.0	45.5	36.2
90°	28.9	31.0	32.6	33.1	38.8	21.7	34.7	36.7	34.7	24.9	17.6
92.5°	23.3	26.4	28.4	29.5	35.2	18.6	31.0	33.1	31.6	24.9	17.6
95°	19.1	23.8	28.4	27.9	29.5	14.5	27.4	30.0	28.9	21.7	15.0
97.5°	15.5	19.1	23.3	23.3	26.9	12.4	25.4	28.4	27.9	19.6	14.5
100°	14.0	17.1	20.7	20.2	23.8	9.8	22.8	24.9	24.3	16.1	12.9
102.5°	12.4	14.0	16.1	16.1	17.6	8.3	17.1	19.1	18.1	13.4	12.9
105°	11.4	11.9	11.4	10.8	11.4	7.3	10.8	12.4	10.8	10.3	10.3
107.5°	10.8	10.8	9.3	8.8	8.3	6.2	7.8	8.3	7.3	9.3	10.3



REPORT NUMBER: P240966

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	10.8	10.3	8.3	7.8	6.8	5.7	6.2	6.2	6.2	9.3	9.8
112.5°	10.3	10.3	7.8	6.8	6.2	5.2	5.2	4.7	5.7	9.3	10.3
115°	10.3	9.8	7.3	6.2	5.2	4.7	4.1	4.1	5.2	9.3	10.3
117.5°	10.3	9.8	7.3	5.7	5.2	4.1	3.6	3.6	5.2	9.3	10.3
120°	10.3	10.3	7.3	5.2	4.7	4.1	3.6	3.6	5.2	8.8	9.8
122.5°	9.8	9.8	6.8	5.2	4.1	3.6	3.1	3.1	5.2	8.8	9.3
125°	9.3	9.3	6.8	4.7	3.6	3.1	3.1	3.1	5.2	8.3	9.3
127.5°	8.8	8.8	6.2	4.1	3.1	3.1	2.6	2.6	5.2	8.3	8.8
130°	8.3	8.3	5.7	3.6	3.1	2.6	2.0	2.6	5.2	7.8	8.3
132.5°	7.3	7.3	5.2	3.1	2.6	2.0	2.0	2.0	4.7	7.3	7.8
135°	6.2	6.2	4.7	3.1	2.6	2.0	1.5	2.0	4.1	6.2	6.8
137.5°	5.7	5.7	4.1	2.6	2.0	1.5	1.5	2.0	4.1	5.7	6.2
140°	4.1	4.1	3.1	2.0	1.5	1.5	1.0	1.5	3.6	4.7	5.2
142.5°	3.1	3.1	2.6	2.0	1.5	1.0	1.0	1.5	3.1	4.1	4.1
145°	2.6	2.6	2.0	1.5	1.5	1.0	0.5	1.0	2.6	3.6	3.6
147.5°	2.0	2.0	2.0	1.5	1.0	0.5	0.5	0.5	1.5	2.6	2.6
150°	1.5	1.5	1.5	1.5	1.0	0.0	0.0	0.0	1.0	1.5	1.5
152.5°	1.0	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5
155°	0.5	1.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	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

(END OF REPORT)