

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: P240481

Luminaire Tested: **UTLD-AF24-50-D-U-T4W-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T4W-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5210.9 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 54
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

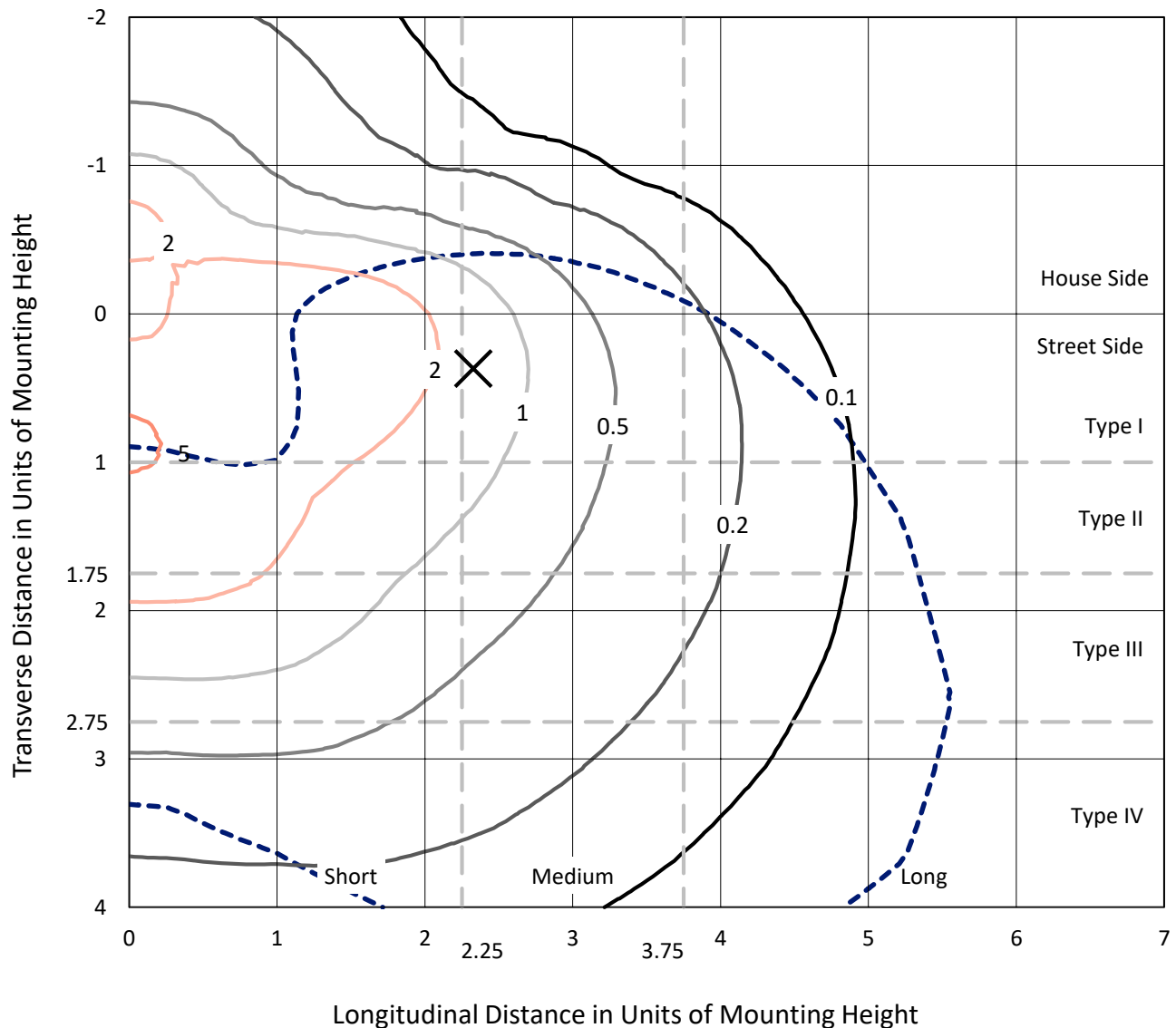


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

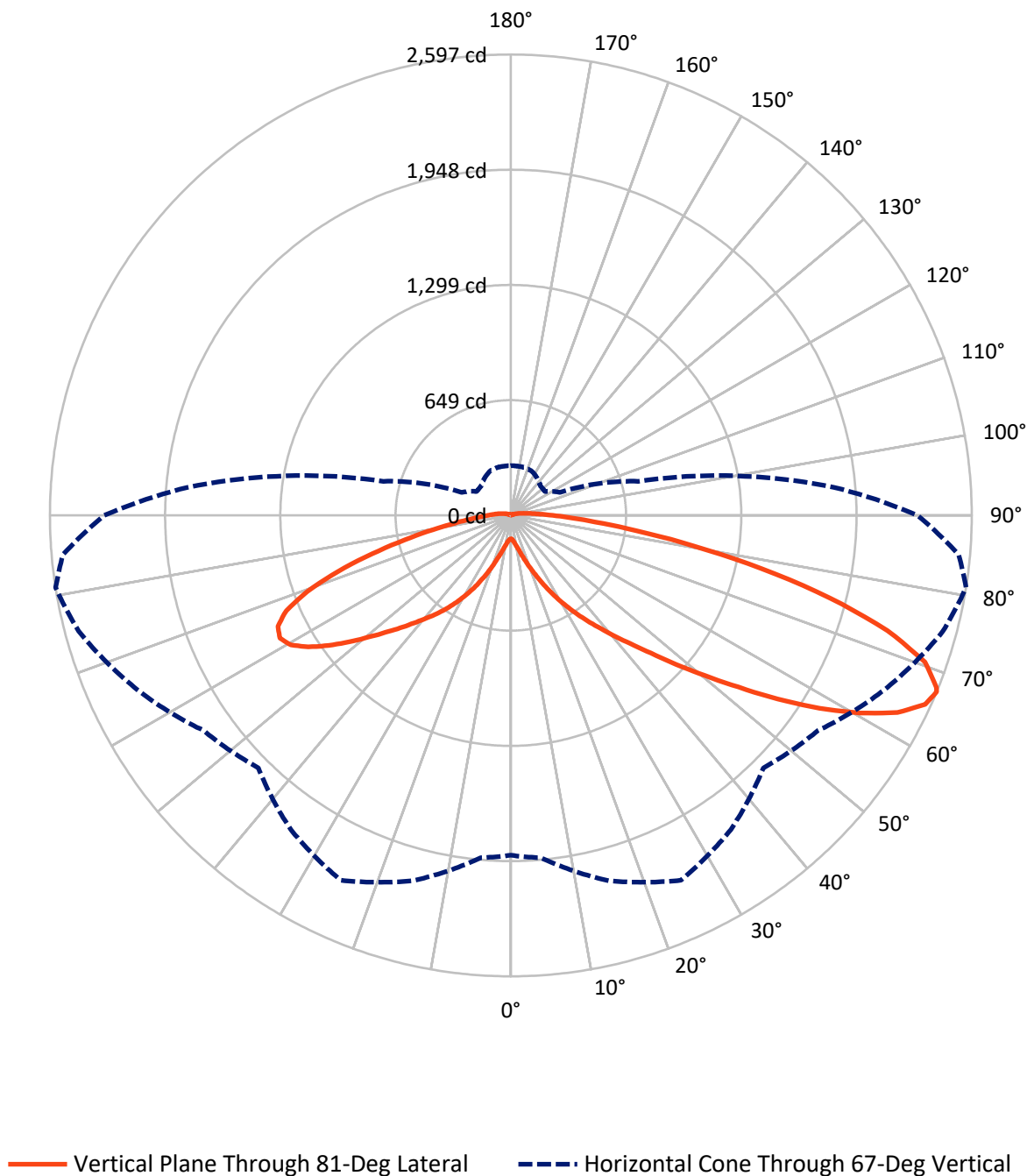


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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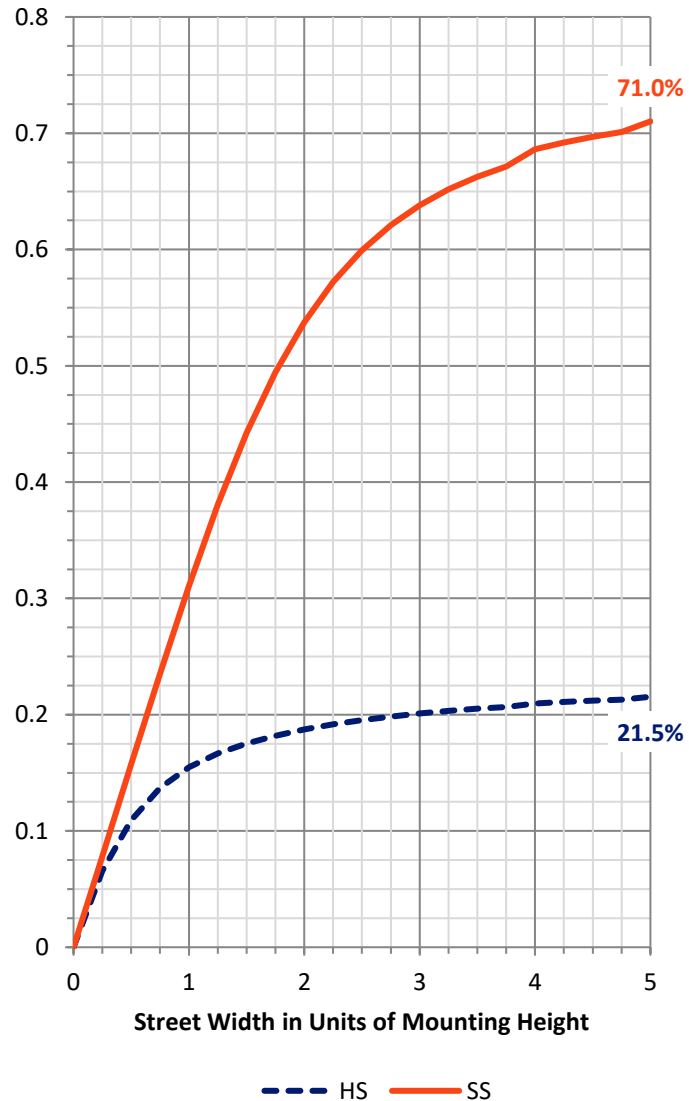
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.2	95.3	1279.5
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	3822.5	108.8	3931.4
	% Fixture	73.4	2.1	75.4
Total	Lumens	5006.8	204.1	5210.9
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	0.3
10°-20°	65.8	1.3
20°-30°	177.7	3.4
30°-40°	356.7	6.8
40°-50°	602.9	11.6
50°-60°	963.9	18.5
60°-70°	1317.0	25.3
70°-80°	1085.6	20.8
80°-90°	422.6	8.1
90°-100°	121.7	2.3
100°-110°	46.6	0.9
110°-120°	20.2	0.4
120°-130°	9.7	0.2
130°-140°	4.5	0.1
140°-150°	1.4	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5006.8	96.1
0°-180°	5210.9	100.0

Coefficient of Utilization



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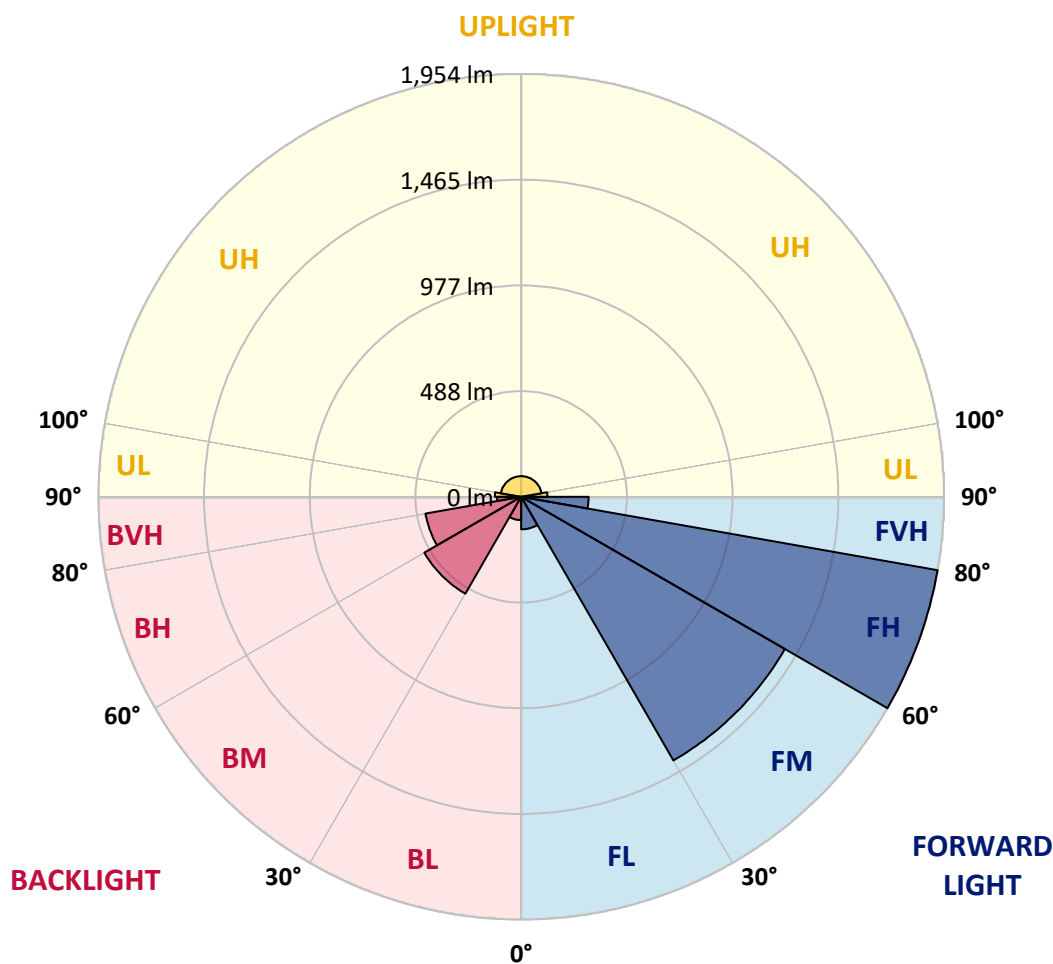
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	150.5	2.9			
FM	(30°-60°)	1406.8	27.0			
FH	(60°-80°)	1953.9	37.5			G2/5000
FVH	(80°-90°)	311.3	6.0			G3/500
BL	(0°-30°)	107.6	2.1	B0/110		
BM	(30°-60°)	516.6	9.9	B1/1000		
BH	(60°-80°)	448.8	8.6	B1/500		G1/500
BVH	(80°-90°)	111.3	2.1			G2/225
UL	(90°-100°)	121.7	2.3		U3/500	
UH	(100°-180°)	95.3	1.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0
2.5°	142.6	142.6	142.6	141.9	141.3	139.9	138.6	137.3	136.7	136.0	135.3
5°	157.2	157.8	157.2	156.5	154.6	152.5	149.9	147.9	145.3	143.9	143.2
7.5°	179.0	179.0	178.4	175.1	173.1	169.8	166.4	162.4	159.8	157.8	155.2
10°	206.9	205.6	204.3	200.9	196.3	191.0	187.0	182.4	177.8	176.5	173.8
12.5°	240.1	240.1	236.8	232.1	223.5	218.2	211.5	206.2	201.6	199.0	197.6
15°	284.5	282.5	276.6	269.2	258.6	248.1	240.7	236.8	232.1	232.1	227.5
17.5°	329.6	331.6	322.3	311.1	296.5	283.2	274.6	273.9	271.9	270.6	270.0
20°	388.6	386.7	375.4	356.2	334.9	319.0	313.0	313.7	319.0	318.3	315.7
22.5°	452.3	452.3	435.1	409.2	379.3	360.1	354.1	360.1	371.4	371.4	372.8
25°	527.9	525.3	503.4	464.2	428.4	403.2	400.6	409.9	429.7	433.1	431.8
27.5°	612.8	603.5	575.0	526.6	479.5	451.0	446.3	463.6	490.8	500.0	503.4
30°	703.0	703.7	659.9	596.9	533.3	495.4	493.5	521.3	553.8	569.7	573.7
32.5°	807.1	803.8	753.4	674.4	592.3	543.2	541.1	579.6	620.7	641.3	643.9
35°	936.4	921.2	864.8	761.4	653.3	597.5	596.2	638.0	691.7	717.6	724.2
37.5°	1055.2	1047.2	982.9	851.5	722.9	652.6	650.0	704.3	768.0	797.8	807.1
40°	1193.8	1184.5	1108.9	959.0	805.8	716.3	714.9	776.6	850.3	888.0	896.0
42.5°	1329.7	1323.8	1242.2	1078.4	893.3	787.9	785.2	856.8	943.8	986.2	996.1
45°	1475.6	1460.4	1381.5	1200.4	990.8	870.8	872.1	949.7	1057.1	1106.9	1116.9
47.5°	1600.3	1591.0	1524.7	1332.4	1098.2	961.0	963.0	1066.4	1197.1	1254.8	1259.5
50°	1736.3	1730.9	1665.3	1472.3	1227.5	1073.1	1076.3	1193.1	1350.9	1417.3	1440.5
52.5°	1849.0	1849.7	1800.0	1616.3	1354.9	1193.8	1203.7	1344.4	1518.1	1607.0	1620.9
55°	1959.2	1955.8	1926.6	1774.1	1506.1	1329.0	1340.4	1511.4	1717.7	1825.1	1843.7
57.5°	2038.7	2047.3	2050.6	1925.3	1652.7	1465.0	1502.2	1685.2	1935.2	2050.6	2067.2
60°	2093.8	2097.8	2144.1	2077.2	1811.2	1625.5	1674.0	1878.2	2139.5	2260.8	2271.5
62.5°	2088.5	2105.6	2195.9	2191.3	1965.1	1778.1	1839.8	2059.2	2317.2	2445.9	2447.9
65°	2017.5	2046.0	2197.2	2263.5	2092.4	1922.6	2002.2	2222.4	2463.2	2565.3	2538.8
67°	1914.7	1936.5	2130.9	2268.2	2161.4	2012.1	2113.0	2323.2	2520.9	2597.1	2532.8
67.5°	1871.6	1910.7	2106.4	2263.5	2168.7	2031.4	2130.9	2349.7	2532.8	2587.1	2518.2
70°	1663.9	1694.5	1914.0	2168.7	2171.3	2089.8	2205.2	2381.5	2487.7	2475.7	2351.0
72.5°	1382.8	1396.7	1637.4	1959.8	2071.9	2066.6	2183.3	2299.3	2298.0	2219.1	2067.9
75°	1047.9	1085.0	1301.9	1645.4	1864.2	1937.3	2043.3	2081.8	1990.3	1857.7	1674.6
77.5°	739.5	758.7	950.3	1293.9	1575.8	1711.7	1786.7	1768.8	1600.3	1443.8	1278.0
80°	478.8	497.4	629.4	927.2	1235.5	1380.8	1449.1	1396.0	1226.3	1042.6	903.3
82.5°	289.8	305.8	398.5	622.1	908.0	1070.4	1104.9	1053.8	864.8	712.3	602.8
85°	169.8	182.4	247.3	401.2	618.8	772.6	785.2	726.9	580.9	476.2	401.9
87.5°	103.4	110.1	156.5	256.7	410.5	521.3	547.2	492.8	391.3	318.3	270.6
90°	67.0	71.6	100.1	168.5	269.2	344.2	360.1	329.0	265.3	216.9	186.4
92.5°	45.7	50.4	69.7	112.7	177.1	228.1	238.0	216.3	178.4	152.5	136.0
95°	35.2	37.1	53.1	79.6	120.7	152.5	161.8	147.2	124.7	112.1	102.1
97.5°	28.5	29.9	42.5	61.7	87.6	109.5	113.4	102.8	92.2	84.2	79.6
100°	24.6	25.2	35.8	50.4	68.3	82.9	84.9	76.9	69.7	65.7	61.7
102.5°	21.9	22.5	31.2	43.1	55.8	65.7	65.7	59.6	53.1	50.4	48.4
105°	19.2	19.8	27.8	37.1	47.8	53.7	53.7	47.1	41.1	38.5	37.8
107.5°	17.3	17.9	23.8	32.5	40.4	45.1	44.4	37.8	31.2	28.5	28.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	16.0	16.0	21.2	28.5	34.5	38.5	36.5	30.5	23.8	21.9	22.5
112.5°	14.6	14.6	18.6	24.6	30.5	33.1	30.5	25.2	18.6	17.3	17.9
115°	13.9	13.9	16.6	21.9	26.5	27.8	25.9	20.6	15.2	13.9	14.6
117.5°	12.6	12.6	15.2	19.2	22.5	23.8	21.9	16.6	12.6	12.0	12.6
120°	12.0	12.0	13.3	16.6	19.8	20.6	18.6	13.9	10.6	10.6	11.3
122.5°	11.3	11.3	12.6	14.6	17.3	17.9	16.0	11.3	9.3	9.3	9.9
125°	11.3	11.3	11.3	13.3	14.6	15.2	13.3	9.9	8.6	8.6	9.3
127.5°	10.6	10.6	10.6	11.3	12.6	12.6	11.3	8.0	7.3	8.0	8.0
130°	9.9	9.9	9.9	10.6	11.3	10.6	9.3	6.6	6.6	7.3	7.3
132.5°	9.3	9.3	9.3	9.3	9.3	8.6	7.3	5.9	5.9	6.6	6.6
135°	8.6	8.6	8.6	8.0	8.0	7.3	5.9	4.6	5.3	5.9	5.9
137.5°	8.0	8.0	8.0	7.3	6.6	5.3	4.0	4.0	4.6	5.3	5.3
140°	7.3	7.3	6.6	5.9	5.3	4.0	2.7	3.3	4.0	4.0	4.6
142.5°	5.9	5.9	5.9	4.6	3.3	2.7	1.9	1.9	3.3	3.3	3.3
145°	5.3	5.3	4.6	4.0	2.7	1.3	0.6	1.3	1.9	2.7	2.7
147.5°	4.0	4.0	4.0	2.7	1.3	0.6	0.6	0.6	1.3	1.9	1.9
150°	3.3	3.3	2.7	1.9	0.6	0.0	0.0	0.6	1.3	1.3	1.3
152.5°	1.9	1.9	1.9	1.3	0.0	0.0	0.0	0.6	0.6	0.6	0.6
155°	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.6	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°	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0
2.5°	134.6	134.0	133.3	132.0	131.3	130.0	128.7	128.0	127.4	127.4	127.4
5°	141.9	141.3	139.2	136.7	134.6	132.7	131.3	130.0	128.7	128.7	128.7
7.5°	153.9	152.5	148.5	145.9	142.6	139.9	138.0	136.0	135.3	135.3	134.6
10°	171.1	169.1	164.5	159.2	154.6	151.2	148.5	146.6	145.9	145.9	145.9
12.5°	193.6	191.0	183.7	177.1	169.8	165.1	161.8	161.1	161.8	161.8	161.1
15°	226.2	220.9	209.6	199.0	187.7	180.3	178.4	178.4	181.7	183.0	183.7
17.5°	265.3	258.6	243.4	226.2	208.9	199.0	197.6	201.6	208.9	212.3	211.5
20°	313.7	304.4	283.2	257.4	233.4	220.9	219.5	226.8	236.8	243.4	242.7
22.5°	368.1	359.5	327.7	289.8	256.7	242.0	240.1	252.1	266.6	273.9	276.6
25°	428.4	416.4	374.7	322.9	281.2	260.6	259.9	274.6	293.8	307.1	309.0
27.5°	494.1	480.2	425.1	356.2	302.4	275.9	275.3	295.1	321.6	338.2	338.9
30°	566.4	545.1	474.9	384.0	318.3	286.5	287.9	311.1	344.8	364.1	367.4
32.5°	638.0	614.1	520.0	411.2	329.0	291.8	293.8	322.9	360.1	384.6	387.3
35°	713.6	683.1	565.1	429.1	334.9	292.5	294.5	327.7	368.1	394.7	397.2
37.5°	789.9	753.4	602.8	442.3	334.9	288.5	291.1	326.3	367.4	394.7	396.6
40°	880.0	827.1	638.6	447.6	329.6	281.2	284.5	319.0	357.4	382.7	384.6
42.5°	973.5	909.9	672.5	446.3	320.3	271.9	275.3	307.1	340.8	361.4	363.5
45°	1086.4	1008.7	707.0	442.3	309.0	262.0	263.9	292.5	321.0	335.6	338.2
47.5°	1225.0	1114.8	742.2	435.1	296.5	252.7	254.0	279.2	299.7	309.0	311.1
50°	1378.8	1240.2	780.6	425.1	284.5	244.1	246.0	266.6	281.2	285.2	285.8
52.5°	1561.2	1382.1	816.4	413.2	273.9	237.4	240.1	258.6	268.6	269.2	270.0
55°	1758.1	1537.3	848.2	398.5	263.3	232.8	238.0	255.3	262.0	261.3	262.0
57.5°	1963.8	1686.5	870.1	383.3	254.7	230.2	238.8	255.3	262.0	260.6	262.0
60°	2147.5	1814.5	873.4	363.5	248.1	230.2	242.7	259.9	266.0	266.0	267.3
62.5°	2278.1	1888.2	851.5	343.5	242.0	231.5	248.1	266.0	271.9	271.9	273.2
65°	2331.2	1886.8	803.8	322.3	237.4	233.4	253.4	272.6	277.2	277.2	278.5
67°	2291.4	1825.1	742.2	306.4	234.8	235.5	257.4	276.6	280.5	279.9	280.5
67.5°	2266.9	1803.3	728.9	301.8	234.2	235.5	258.0	277.2	281.2	280.5	280.5
70°	2063.9	1616.9	637.3	281.8	229.4	235.5	260.6	278.5	281.2	279.9	279.9
72.5°	1750.2	1353.0	534.5	262.0	224.1	233.4	259.3	276.6	277.8	275.9	275.9
75°	1392.0	1058.4	439.1	244.7	216.9	228.8	254.7	270.6	272.6	270.6	268.6
77.5°	1030.6	783.9	354.9	226.2	208.3	221.5	246.7	262.0	263.9	262.0	259.9
80°	718.9	557.1	285.8	207.6	197.0	210.9	235.5	248.7	251.3	250.0	246.7
82.5°	480.8	382.7	228.8	187.0	182.4	197.0	220.1	232.1	234.2	232.8	228.8
85°	328.3	266.6	189.0	165.1	166.4	180.3	200.3	209.6	211.5	209.6	205.6
87.5°	220.9	191.0	154.6	143.9	147.9	161.1	177.1	181.7	185.7	182.4	179.7
90°	159.8	143.9	124.7	122.7	129.3	140.6	151.2	151.9	157.2	155.9	150.6
92.5°	120.0	112.7	103.4	103.4	110.8	120.0	126.6	125.3	128.7	128.7	124.7
95°	94.8	90.8	86.2	88.2	94.8	101.5	103.4	100.8	104.1	104.8	103.4
97.5°	76.3	75.0	73.7	75.0	80.9	86.2	85.5	80.9	83.6	84.9	83.6
100°	61.7	61.0	61.7	64.3	68.9	72.3	70.3	65.7	67.6	67.6	67.6
102.5°	49.7	49.7	51.8	54.4	57.7	60.4	57.7	53.7	54.4	53.7	53.7
105°	39.2	39.8	42.5	45.7	48.4	49.7	47.1	43.1	42.5	40.4	41.1
107.5°	30.5	31.8	34.5	37.8	40.4	41.1	39.2	35.2	32.5	31.2	31.2



REPORT NUMBER: P240481

CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	23.8	25.2	28.5	31.2	33.1	33.9	31.8	27.8	24.6	23.8	23.8
112.5°	19.2	20.6	23.2	25.9	27.8	27.8	25.9	22.5	18.6	17.9	17.9
115°	16.0	16.6	19.2	21.2	23.2	23.2	21.2	17.9	14.6	13.9	14.6
117.5°	13.3	13.9	16.0	17.9	19.2	19.2	17.3	13.9	11.3	11.3	11.3
120°	12.0	12.6	13.9	15.2	16.0	16.0	14.6	11.3	9.3	9.3	9.3
122.5°	10.6	10.6	12.0	12.6	13.9	13.3	12.0	9.3	7.3	8.0	8.0
125°	9.3	9.9	9.9	11.3	11.3	11.3	9.3	7.3	6.6	6.6	6.6
127.5°	8.6	8.6	9.3	9.3	9.9	9.3	7.3	5.3	5.3	5.9	5.9
130°	8.0	8.0	8.0	8.0	8.0	7.3	5.9	4.6	4.6	5.3	5.3
132.5°	6.6	7.3	7.3	6.6	6.6	5.9	4.6	3.3	4.0	4.0	4.0
135°	5.9	6.6	5.9	5.9	5.3	4.6	3.3	2.7	3.3	3.3	3.3
137.5°	5.3	5.3	5.3	4.6	4.0	3.3	2.7	1.9	2.7	2.7	2.7
140°	4.6	4.6	4.6	4.0	3.3	2.7	1.3	1.3	1.9	1.9	1.9
142.5°	3.3	4.0	3.3	2.7	1.9	1.3	0.6	0.6	1.3	1.9	1.3
145°	2.7	2.7	2.7	1.9	1.3	0.6	0.0	0.0	0.6	0.6	0.6
147.5°	1.9	1.9	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.6	0.6
150°	1.3	1.3	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.6	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

(END OF REPORT)