

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: P240427

Luminaire Tested: **UTLD-AF24-50-D-U-T3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
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-T3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5252.8 lumens
Efficiency: N/A
Efficacy: 97.3 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



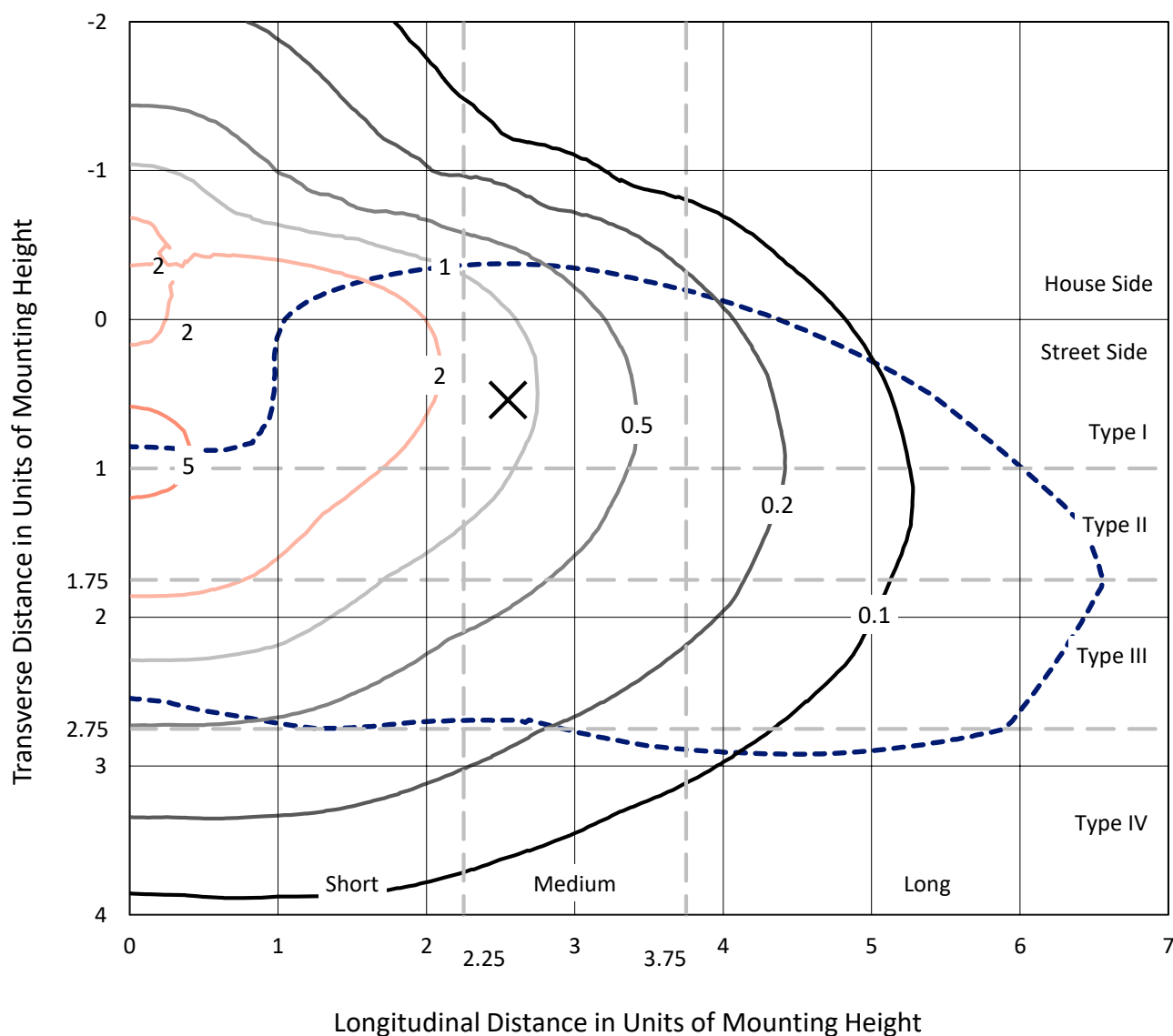
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

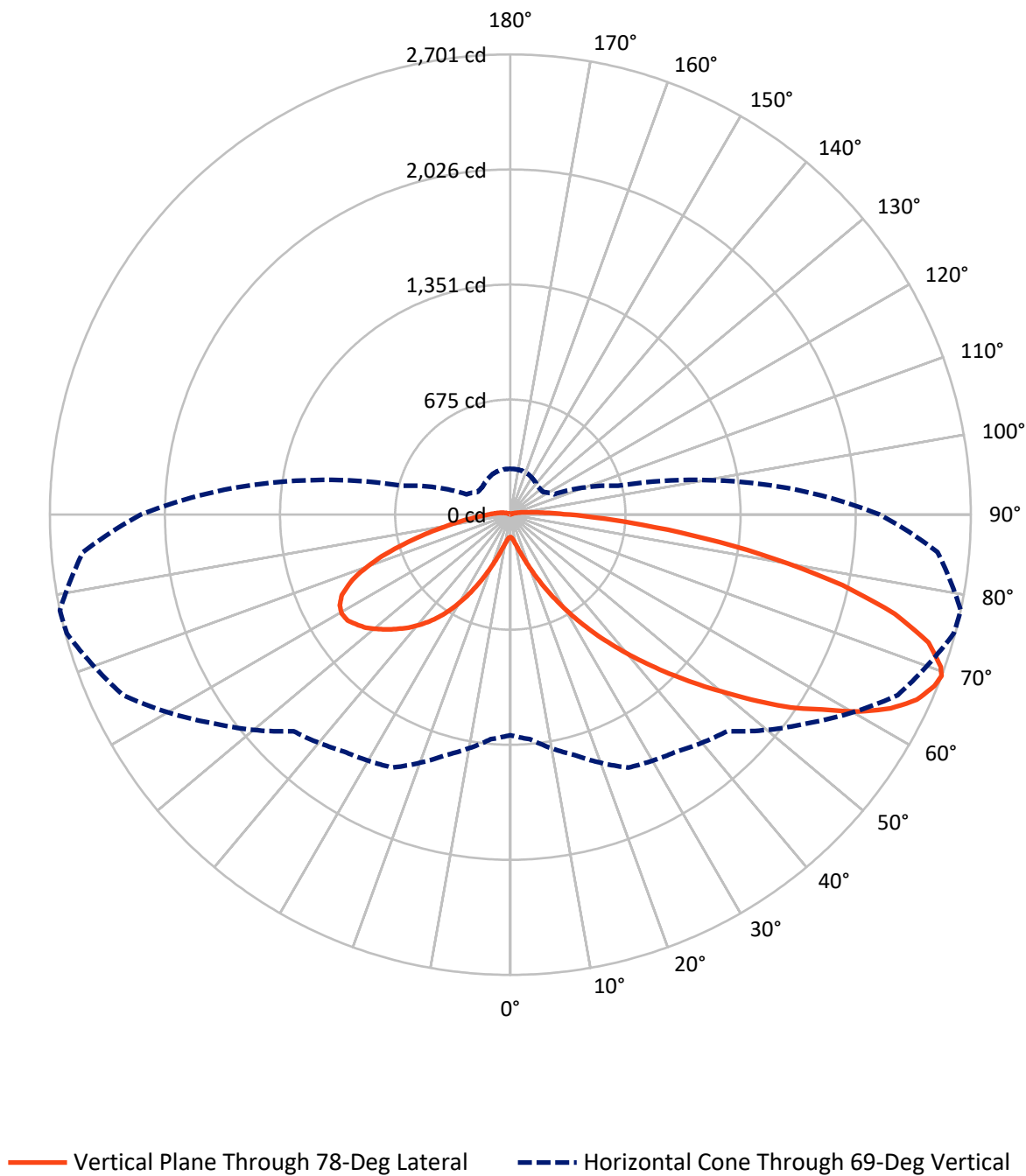


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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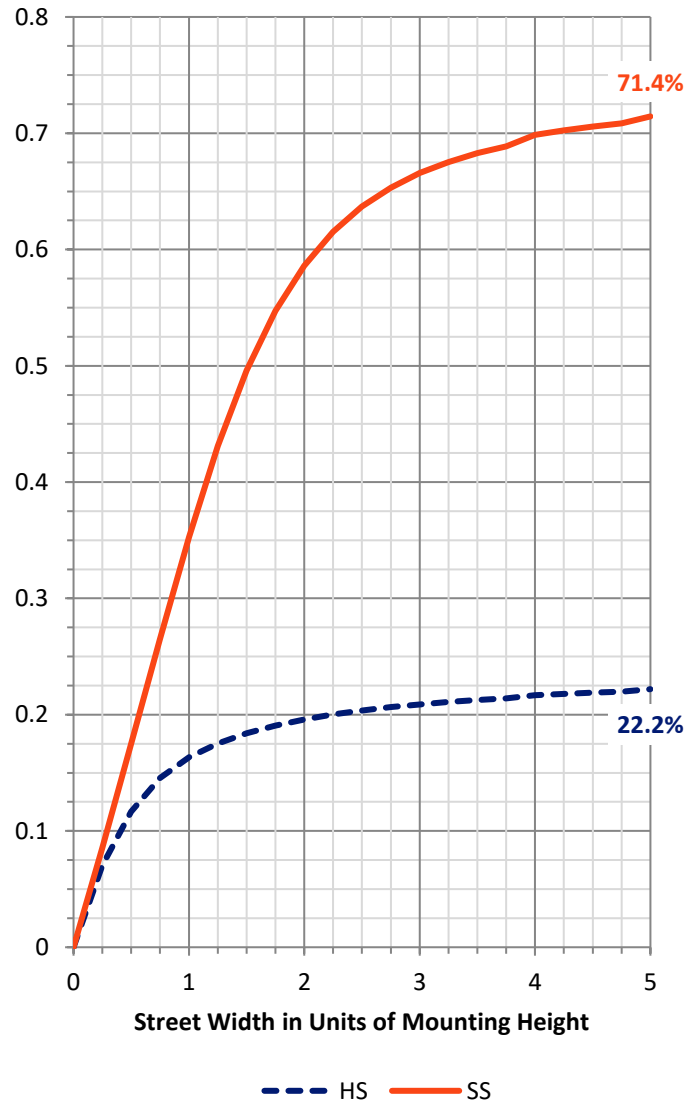
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.2	91.6	1311.9
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	3840.2	100.7	3940.9
	% Fixture	73.1	1.9	75.0
Total	Lumens	5060.5	192.4	5252.8
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	0.3
10°-20°	67.5	1.3
20°-30°	192.5	3.7
30°-40°	409.1	7.8
40°-50°	709.1	13.5
50°-60°	1061.6	20.2
60°-70°	1263.6	24.1
70°-80°	963.9	18.3
80°-90°	378.7	7.2
90°-100°	111.2	2.1
100°-110°	45.0	0.9
110°-120°	20.3	0.4
120°-130°	9.8	0.2
130°-140°	4.6	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°	5060.5	96.3
0°-180°	5252.8	100.0

Coefficient of Utilization



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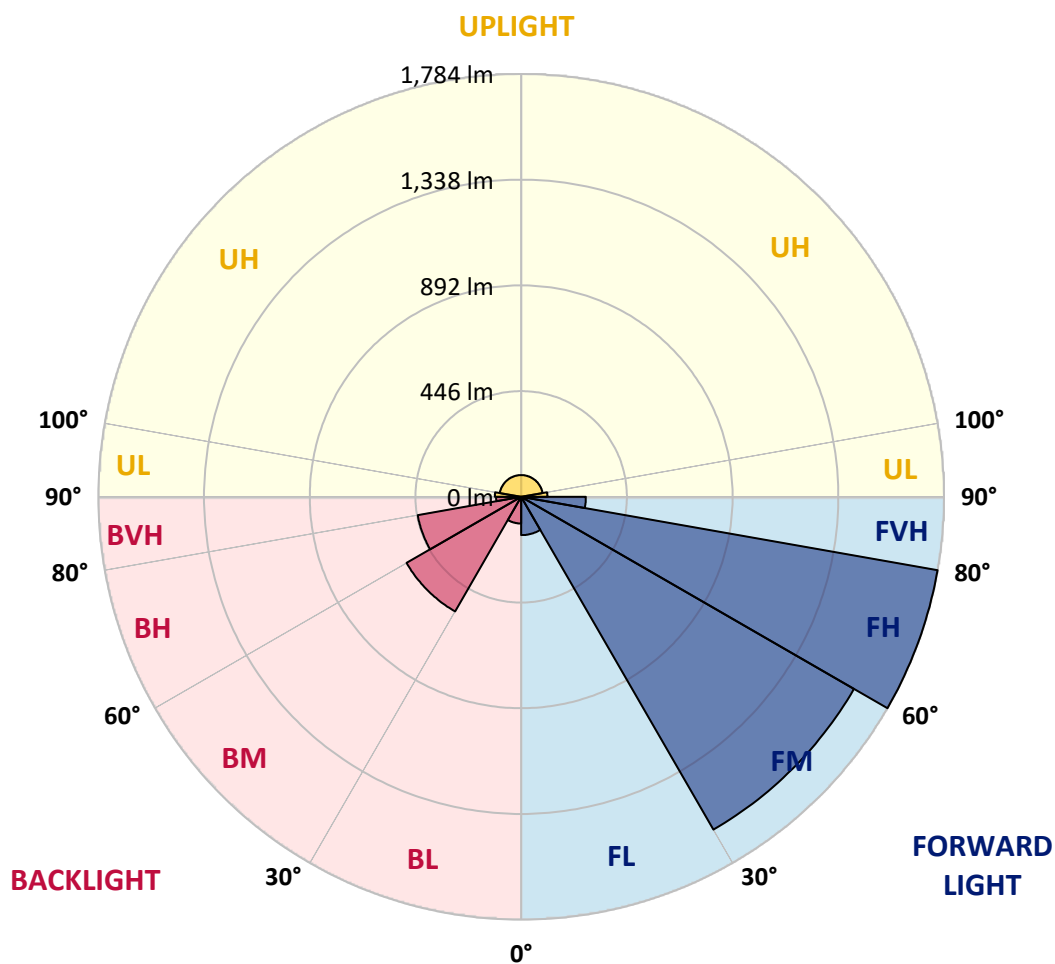
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	161.6	3.1			
FM	(30°-60°)	1621.5	30.9			
FH	(60°-80°)	1784.3	34.0			G1/1800
FVH	(80°-90°)	272.8	5.2			G3/500
BL	(0°-30°)	112.8	2.1	B1/500		
BM	(30°-60°)	558.4	10.6	B1/1000		
BH	(60°-80°)	443.2	8.4	B1/500		G1/500
BVH	(80°-90°)	105.8	2.0			G2/225
UL	(90°-100°)	111.2	2.1		U3/500	
UH	(100°-180°)	91.6	1.7		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°	78°	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	141.9	141.9	141.3	139.9	137.9	136.6	136.0	136.0	134.6
5°	158.5	158.5	157.1	157.1	155.2	153.2	150.6	147.2	145.3	144.5	142.6
7.5°	179.7	179.0	178.4	176.4	174.4	170.4	167.2	163.8	159.8	159.2	156.5
10°	206.9	205.6	205.6	203.0	199.0	194.3	188.3	183.7	179.7	179.0	176.4
12.5°	242.7	241.4	239.4	234.1	228.1	220.9	215.5	210.9	206.9	205.6	202.2
15°	285.2	284.5	279.2	272.5	262.0	252.7	246.7	242.7	241.4	240.1	236.7
17.5°	338.2	334.9	329.6	316.3	302.4	289.2	283.9	284.5	285.2	285.2	282.5
20°	397.2	395.9	387.9	370.0	350.8	334.2	329.6	333.6	338.9	338.9	338.2
22.5°	474.9	470.9	456.2	431.1	403.9	387.3	380.6	389.2	403.9	404.6	407.1
25°	559.8	558.4	535.2	498.1	463.6	443.7	439.1	449.6	476.2	478.1	485.4
27.5°	653.9	650.6	629.3	576.9	531.8	502.7	500.7	523.9	552.4	562.3	573.0
30°	767.9	764.7	724.1	663.8	608.8	570.3	571.0	600.8	644.6	653.3	668.5
32.5°	886.0	882.7	840.9	765.3	692.3	644.6	645.9	690.4	740.7	751.4	767.9
35°	1021.9	1020.6	965.6	872.7	780.5	722.8	732.8	779.9	842.2	859.5	874.0
37.5°	1169.1	1154.6	1100.9	992.8	877.4	814.4	821.6	884.6	958.3	966.3	980.8
40°	1317.0	1313.8	1249.4	1128.0	988.8	910.5	920.5	991.4	1071.0	1085.6	1093.5
42.5°	1472.8	1471.5	1395.9	1263.3	1104.2	1016.6	1025.9	1106.8	1195.7	1209.6	1213.6
45°	1638.7	1629.4	1554.5	1405.9	1237.5	1129.3	1145.9	1229.5	1334.3	1345.6	1347.5
47.5°	1781.3	1769.3	1712.9	1558.5	1367.5	1251.4	1264.0	1368.1	1478.2	1490.1	1485.5
50°	1910.0	1904.6	1847.6	1711.0	1510.0	1374.7	1392.6	1506.1	1630.1	1644.6	1640.0
52.5°	1994.1	1990.9	1967.6	1835.7	1635.4	1500.8	1525.9	1649.3	1795.9	1817.1	1792.5
55°	2035.9	2035.9	2040.6	1945.0	1750.1	1620.1	1659.2	1808.5	1968.3	1998.1	1963.7
57.5°	2032.6	2028.6	2067.1	2020.0	1838.2	1716.3	1792.5	1977.6	2145.3	2157.3	2139.4
60°	1957.0	1969.6	2037.2	2045.9	1901.3	1801.8	1919.9	2134.1	2314.4	2346.2	2291.9
62.5°	1836.3	1860.1	1959.0	2016.0	1918.5	1862.8	2029.3	2271.4	2471.7	2504.1	2426.5
65°	1669.9	1694.4	1815.7	1925.8	1884.1	1883.4	2104.2	2396.7	2597.0	2620.2	2516.0
67.5°	1461.0	1469.0	1608.8	1767.4	1786.6	1852.3	2140.0	2482.9	2687.8	2683.8	2547.9
69°	1294.5	1323.0	1461.0	1638.1	1697.7	1797.8	2133.4	2506.7	2693.1	2701.1	2516.0
70°	1210.3	1215.6	1351.5	1531.3	1635.4	1748.7	2110.9	2501.4	2684.5	2678.5	2479.5
72.5°	939.7	950.3	1075.0	1270.6	1414.5	1585.7	2000.1	2411.9	2580.4	2565.2	2291.9
75°	670.4	688.3	803.1	986.7	1157.3	1372.8	1795.9	2219.6	2366.2	2331.0	2022.0
77.5°	457.6	476.2	561.7	730.2	899.9	1134.7	1514.7	1928.5	2029.3	1992.8	1652.6
80°	293.8	306.4	374.0	507.3	669.1	871.3	1206.3	1545.2	1634.7	1569.7	1263.3
82.5°	194.3	202.2	249.4	343.5	468.2	642.6	894.6	1154.6	1194.4	1153.3	885.4
85°	131.3	136.6	170.4	233.4	328.3	452.2	633.3	803.1	835.5	778.6	590.2
87.5°	90.2	95.5	122.7	163.2	228.1	315.7	424.4	539.8	529.9	503.3	385.3
90°	64.3	68.9	88.2	116.0	161.1	219.5	283.2	341.6	340.2	314.4	246.0
92.5°	46.4	50.4	67.0	86.8	119.4	153.9	191.0	214.8	214.8	204.3	163.2
95°	35.2	37.8	51.0	66.3	89.5	114.1	133.3	145.9	143.2	135.3	118.0
97.5°	27.8	29.9	40.4	53.7	71.0	88.2	99.4	100.8	98.8	96.2	87.6
100°	23.2	24.6	33.9	45.1	59.0	71.6	76.9	75.0	72.3	71.6	67.0
102.5°	19.8	20.6	29.2	39.1	50.4	59.6	61.7	58.3	55.0	54.4	52.4
105°	17.9	17.9	25.2	33.9	43.1	49.7	51.0	47.1	42.5	41.1	40.4
107.5°	16.0	16.6	21.9	29.9	37.1	42.5	42.5	37.8	32.5	31.2	31.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	14.6	14.6	19.2	26.5	32.5	36.5	35.8	30.5	25.2	23.8	24.6
112.5°	13.3	13.3	17.3	23.2	28.5	31.2	29.9	24.6	19.8	19.2	19.2
115°	12.6	12.6	15.2	20.6	24.6	26.5	25.2	19.8	16.0	15.2	16.0
117.5°	11.3	12.0	13.9	17.9	21.2	23.2	21.2	16.6	13.3	12.6	13.9
120°	10.6	11.3	12.6	15.2	18.6	19.8	17.3	13.9	11.3	11.3	12.0
122.5°	9.9	10.6	11.3	13.9	16.0	16.6	14.6	11.3	9.3	9.9	10.6
125°	9.9	9.9	10.6	12.0	13.9	13.9	12.0	9.3	8.6	8.6	9.3
127.5°	9.3	9.3	9.3	10.6	12.0	12.0	9.9	8.0	7.3	8.0	8.6
130°	8.6	8.6	8.6	9.3	9.9	9.9	8.6	6.6	6.6	6.6	7.3
132.5°	8.0	8.0	8.0	8.0	8.6	8.0	6.6	5.3	5.9	5.9	6.6
135°	7.3	7.3	7.3	7.3	6.6	5.9	4.6	4.6	5.3	5.3	5.9
137.5°	6.6	6.6	6.6	5.9	5.3	4.6	4.0	4.0	4.6	4.6	5.3
140°	5.9	5.9	5.9	4.6	4.0	3.3	2.7	2.7	4.0	4.0	4.0
142.5°	5.3	5.3	4.6	4.0	3.3	1.9	1.3	1.9	2.7	2.7	3.3
145°	4.0	4.0	4.0	3.3	1.9	1.3	0.6	1.3	1.9	1.9	2.7
147.5°	3.3	3.3	3.3	2.7	1.3	0.6	0.6	0.6	1.3	1.3	1.9
150°	2.7	2.7	1.9	1.9	0.6	0.0	0.0	0.6	0.6	1.3	1.3
152.5°	1.9	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.6	0.6	0.6
155°	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.6	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°	134.0	133.3	132.7	131.3	130.6	129.3	128.0	126.6	126.6	126.6	126.0
5°	141.9	140.6	138.6	136.0	134.0	132.0	130.0	128.0	127.4	126.6	126.6
7.5°	154.6	153.2	149.2	145.9	141.9	139.2	136.0	134.6	133.3	132.7	132.7
10°	173.8	171.1	165.8	160.5	155.8	150.6	147.2	145.3	143.2	142.6	143.2
12.5°	199.6	195.0	188.3	180.3	172.5	165.8	161.8	159.8	159.2	158.5	158.5
15°	235.4	232.1	218.8	204.9	193.6	184.3	179.0	177.1	181.1	182.4	182.4
17.5°	281.8	275.9	259.9	240.7	217.5	203.6	199.6	203.0	206.2	210.2	210.9
20°	339.5	329.6	309.0	277.8	246.7	226.8	223.5	227.5	235.4	240.7	241.4
22.5°	402.5	395.9	364.1	317.6	275.9	252.7	245.4	251.3	263.9	271.2	271.9
25°	483.4	472.8	425.1	361.4	306.4	273.8	265.3	273.8	289.2	300.4	301.1
27.5°	571.6	555.1	492.8	405.2	332.3	291.7	281.2	292.5	313.0	326.3	327.7
30°	663.2	640.0	559.8	446.3	355.5	303.7	292.5	306.4	329.6	344.8	346.9
32.5°	759.3	731.5	621.3	482.1	370.7	310.4	298.4	315.0	339.5	355.5	357.4
35°	857.4	822.4	679.0	508.0	378.0	311.7	299.1	317.6	341.6	358.1	360.1
37.5°	961.0	909.2	729.5	525.9	379.3	307.7	296.5	315.0	337.6	352.8	354.1
40°	1061.1	994.1	771.9	533.9	374.7	301.8	289.8	309.0	328.3	339.5	340.8
42.5°	1171.2	1085.6	809.1	533.9	365.4	294.4	282.5	300.4	315.7	323.7	324.3
45°	1283.2	1177.1	838.2	527.2	353.4	285.2	275.2	291.1	303.1	306.4	306.4
47.5°	1412.5	1273.3	865.4	516.0	340.2	275.9	267.9	282.5	291.1	291.1	291.7
50°	1542.5	1374.0	886.0	500.0	325.0	267.9	262.0	275.9	282.5	278.5	278.5
52.5°	1683.1	1477.6	905.2	479.5	311.0	260.6	258.0	272.5	277.2	271.2	270.0
55°	1825.0	1575.0	909.2	453.6	295.1	254.6	255.9	270.0	274.6	267.9	267.3
57.5°	1976.9	1675.2	908.6	423.8	281.2	250.0	254.0	269.2	273.8	267.3	266.6
60°	2094.3	1754.1	887.3	392.6	268.6	245.4	253.3	268.6	273.8	268.6	268.6
62.5°	2200.4	1800.5	847.5	359.5	256.7	242.0	251.3	267.3	272.5	270.0	270.0
65°	2248.8	1813.8	786.5	326.9	246.7	238.0	250.0	265.3	271.2	270.6	271.2
67.5°	2219.0	1752.1	705.6	297.8	237.4	233.4	246.7	262.0	268.6	270.0	270.6
69°	2167.2	1683.1	655.2	282.5	232.1	230.2	244.1	258.6	266.6	268.6	268.6
70°	2121.5	1624.1	613.5	273.2	228.1	228.1	242.7	256.7	264.6	266.6	267.3
72.5°	1899.9	1431.7	518.6	248.7	219.5	221.5	236.1	250.0	258.6	260.6	260.6
75°	1628.0	1174.4	422.5	228.1	209.6	214.2	228.1	241.4	249.4	251.3	250.7
77.5°	1296.5	910.5	342.9	210.2	198.2	203.0	217.5	230.2	238.0	239.4	236.7
80°	967.5	663.8	277.8	191.7	185.1	191.0	204.3	214.8	222.8	223.5	219.5
82.5°	670.4	479.5	226.2	173.8	170.4	175.0	187.0	196.3	203.6	201.6	199.6
85°	446.9	328.9	185.1	153.9	153.9	159.2	167.8	173.8	181.1	178.4	174.4
87.5°	294.4	226.8	151.9	134.6	136.0	140.6	147.2	149.2	155.8	153.9	149.2
90°	199.6	163.2	124.7	116.0	118.0	122.7	126.0	126.0	130.6	127.4	125.3
92.5°	141.9	124.7	104.1	100.1	102.1	106.1	106.8	104.1	108.1	106.1	103.4
95°	106.8	98.1	88.2	86.2	88.9	91.6	90.8	86.8	88.2	86.8	86.2
97.5°	82.9	80.2	75.0	73.7	76.3	78.3	76.9	72.3	72.9	71.6	70.3
100°	67.0	65.0	63.6	63.6	65.7	66.3	64.3	60.4	59.6	57.7	58.3
102.5°	53.1	53.1	53.7	55.0	56.4	56.4	53.7	50.4	49.1	47.1	47.1
105°	41.7	42.5	45.1	45.7	47.1	47.1	44.4	41.7	39.1	37.1	37.1
107.5°	32.5	33.9	36.5	38.5	39.8	39.1	37.1	34.5	31.2	29.2	29.2



REPORT NUMBER: P240427

CATALOG NUMBER: UTLD-AF24-50-D-U-T3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	25.9	27.2	29.9	32.5	33.1	33.1	31.2	27.8	23.8	23.2	23.2
112.5°	21.2	21.9	25.2	27.2	27.8	27.8	25.9	23.2	19.2	18.6	18.6
115°	17.3	17.9	20.6	22.5	23.2	23.2	21.9	19.2	15.2	15.2	15.2
117.5°	14.6	15.2	17.3	19.2	19.8	19.8	17.9	15.2	12.6	12.6	12.6
120°	12.6	13.3	14.6	16.0	16.6	16.6	15.2	12.6	10.6	10.6	10.6
122.5°	11.3	12.0	12.6	13.9	14.6	14.6	12.6	9.9	9.3	9.3	9.3
125°	9.9	10.6	11.3	12.0	12.6	12.0	10.6	8.6	8.0	8.6	8.6
127.5°	8.6	9.3	9.9	9.9	10.6	9.9	8.6	7.3	6.6	7.3	7.3
130°	8.0	8.0	8.6	8.6	9.3	8.6	7.3	5.9	5.9	6.6	6.6
132.5°	7.3	7.3	7.3	7.3	8.0	7.3	5.9	4.6	5.3	5.9	5.9
135°	5.9	5.9	6.6	5.9	6.6	5.3	4.6	4.0	4.6	5.3	5.3
137.5°	5.3	5.3	5.3	5.3	4.6	4.6	3.3	3.3	4.0	4.6	4.0
140°	4.6	4.6	4.6	4.0	4.0	3.3	2.7	2.7	3.3	3.3	3.3
142.5°	3.3	3.3	3.3	3.3	2.7	1.9	1.3	1.9	1.9	2.7	2.7
145°	2.7	2.7	2.7	1.9	1.3	1.3	0.6	1.3	1.3	1.9	1.9
147.5°	1.9	1.9	1.9	1.3	1.3	0.6	0.6	0.6	1.3	1.3	1.3
150°	1.3	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.6	0.6	0.6
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	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.6	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)