

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: P240526

Luminaire Tested: **UTLD-AF24-50-D-U-SL3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
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-SL3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4796.5 lumens
Efficiency: N/A
Efficacy: 88.8 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



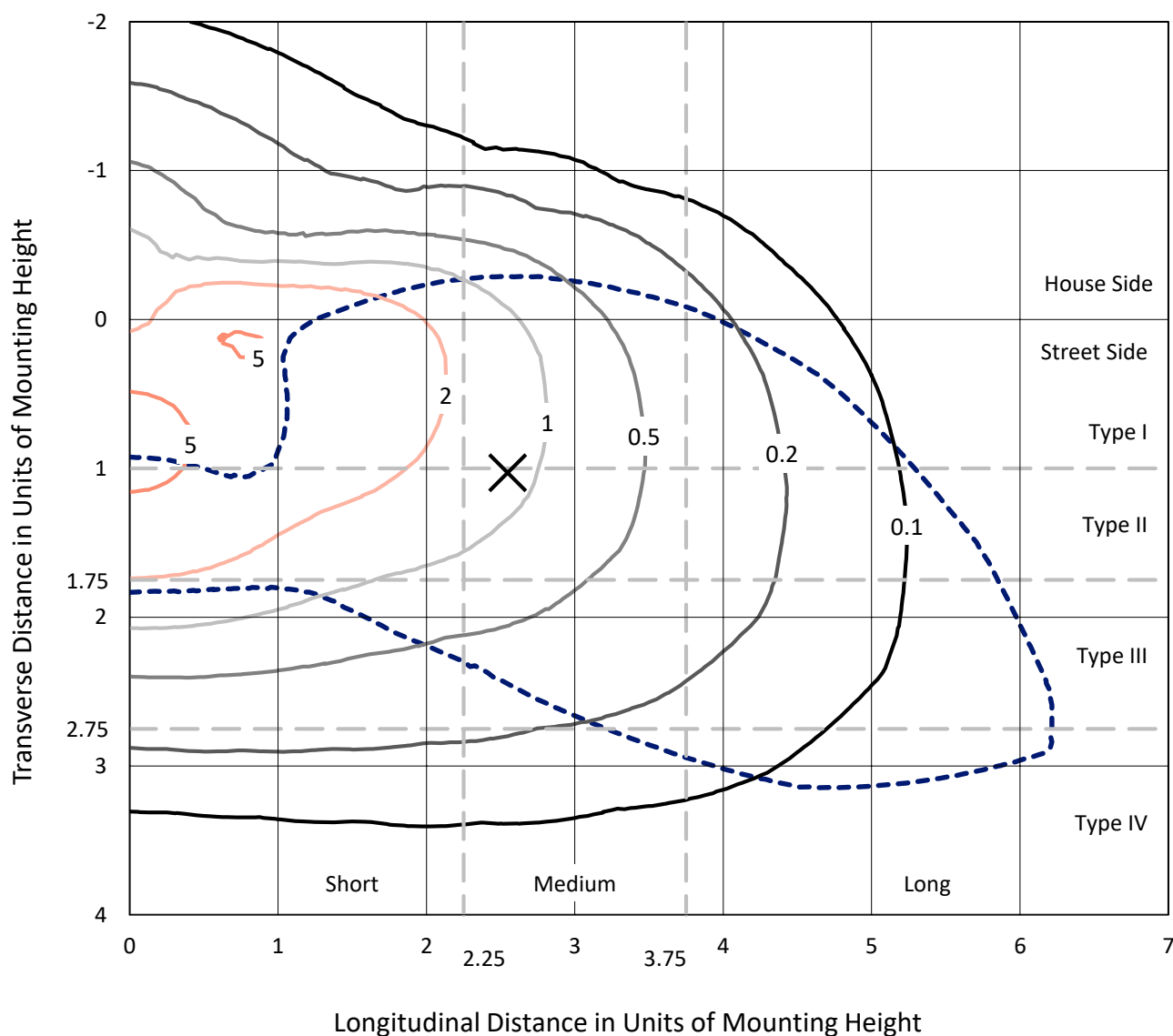
REPORT NUMBER: P240526

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

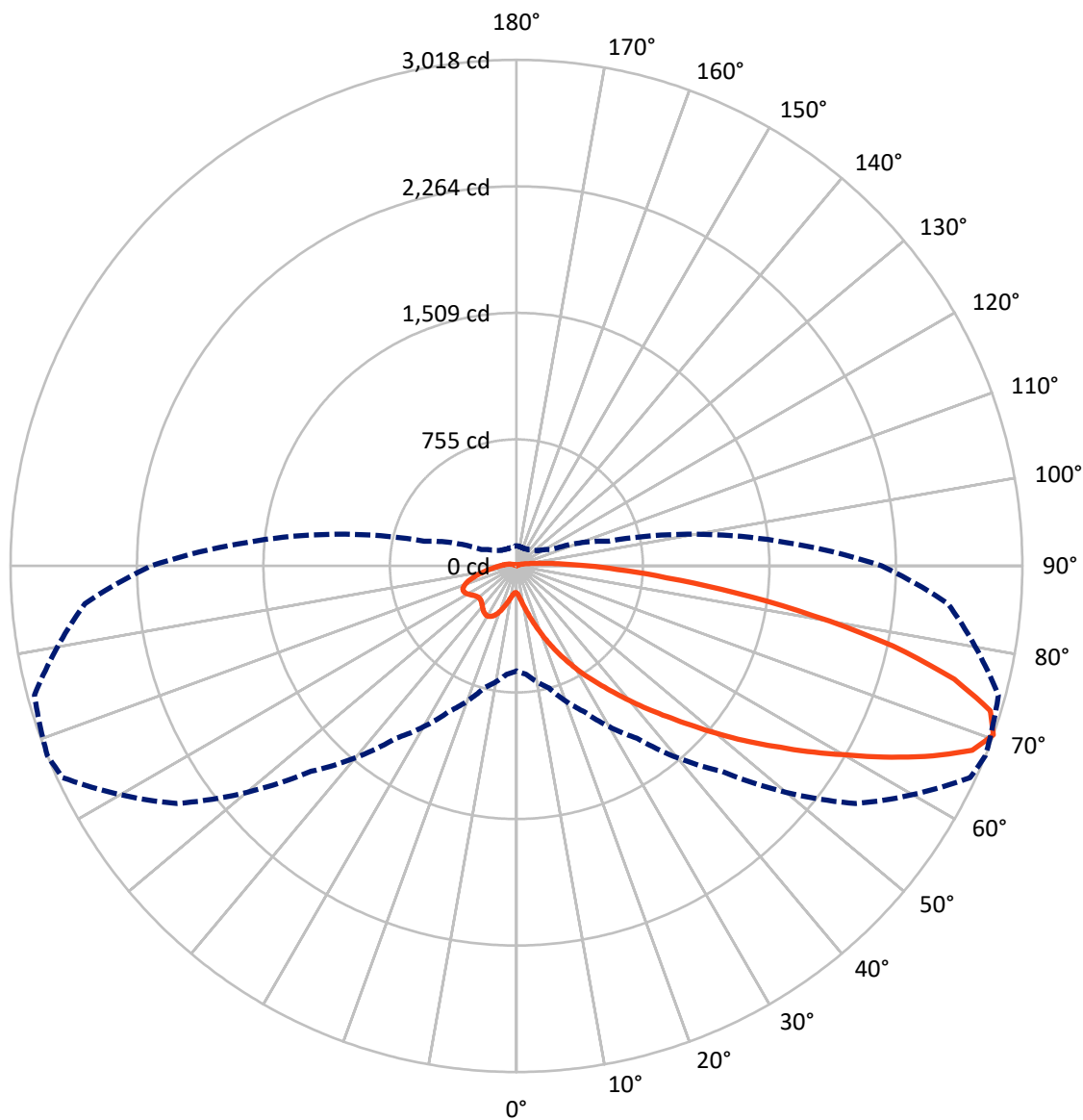


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240526

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P240526

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7030

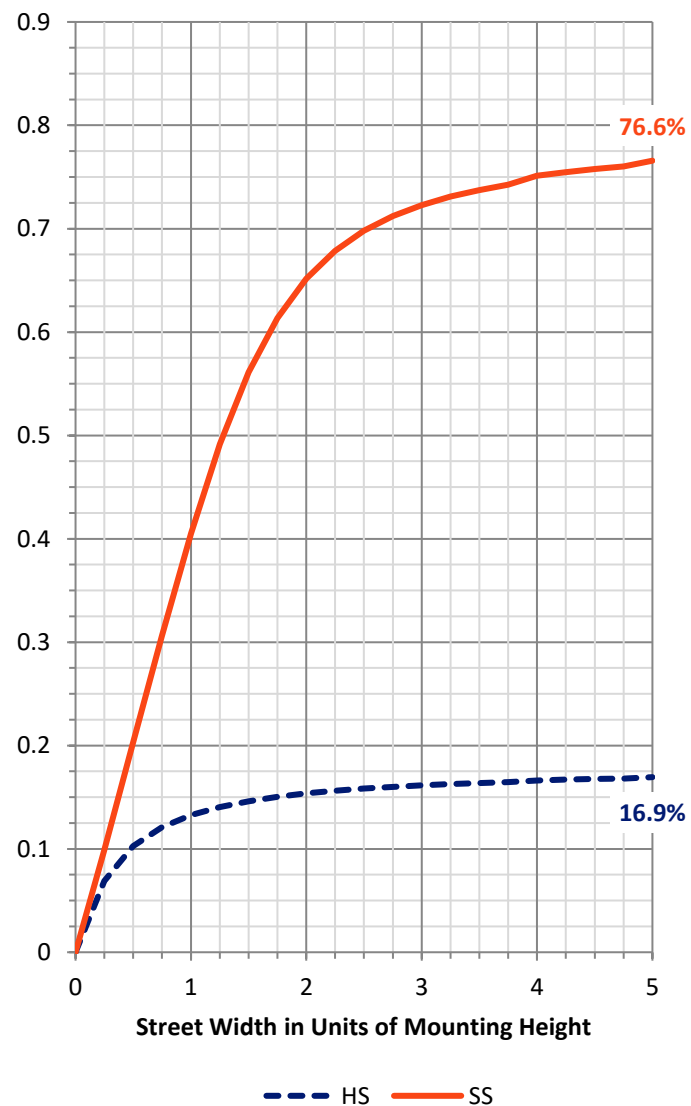
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.8	77.9	925.7
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	3764.1	106.6	3870.8
	% Fixture	78.5	2.2	80.7
Total	Lumens	4611.9	184.5	4796.5
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	0.4
10°-20°	76.1	1.6
20°-30°	192.5	4.0
30°-40°	373.2	7.8
40°-50°	629.2	13.1
50°-60°	940.7	19.6
60°-70°	1140.6	23.8
70°-80°	889.9	18.6
80°-90°	352.1	7.3
90°-100°	107.8	2.2
100°-110°	42.4	0.9
110°-120°	18.8	0.4
120°-130°	9.3	0.2
130°-140°	4.6	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4611.9	96.2
0°-180°	4796.5	100.0

Coefficient of Utilization



REPORT NUMBER: P240526

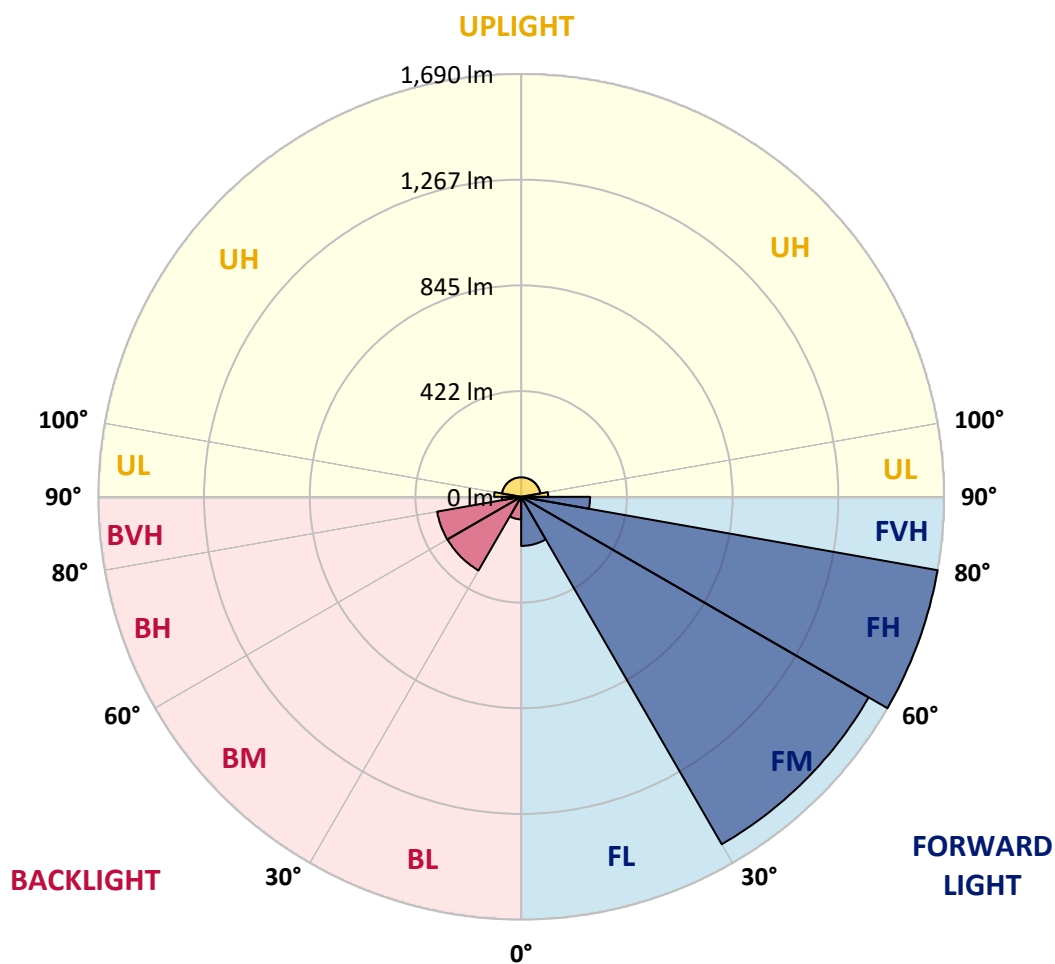
CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.1	4.1			
FM	(30°-60°)	1603.2	33.4			
FH	(60°-80°)	1689.6	35.2			G1/1800
FVH	(80°-90°)	275.2	5.7			G3/500
BL	(0°-30°)	90.1	1.9	B0/110		
BM	(30°-60°)	339.8	7.1	B1/1000		
BH	(60°-80°)	341.0	7.1	B1/500		G1/500
BVH	(80°-90°)	76.9	1.6			G1/100
UL	(90°-100°)	107.8	2.2		U3/500	
UH	(100°-180°)	77.9	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





REPORT NUMBER: P240526

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1
2.5°	179.4	180.0	180.0	178.1	177.4	175.6	172.4	171.2	169.9	168.7	166.2
5°	203.2	203.2	201.9	200.1	197.5	195.7	192.6	188.8	188.2	183.8	179.4
7.5°	230.1	230.7	231.4	228.3	224.5	221.4	217.7	212.6	211.3	206.9	198.8
10°	265.9	266.5	265.3	262.1	257.1	253.4	249.0	243.9	242.0	238.3	227.0
12.5°	309.2	308.5	304.8	300.4	294.8	290.3	284.7	280.9	279.7	275.9	264.0
15°	355.0	357.5	353.0	343.1	336.1	329.2	326.6	326.6	328.0	323.6	312.3
17.5°	413.9	415.7	408.2	394.4	383.2	375.7	373.1	378.1	380.0	381.9	371.9
20°	482.3	482.8	470.9	451.5	431.5	422.1	422.7	434.6	439.0	445.9	434.0
22.5°	565.6	560.6	543.7	513.6	484.8	469.7	475.4	499.2	502.9	517.4	511.2
25°	652.9	652.2	624.0	583.8	541.8	522.4	531.8	561.3	571.9	593.9	585.7
27.5°	753.2	750.6	714.2	664.8	607.7	578.8	586.9	629.0	641.6	678.5	669.8
30°	859.8	860.4	817.7	748.8	677.9	637.7	642.8	701.1	717.4	760.0	757.5
32.5°	987.0	979.5	931.9	841.6	754.4	699.8	706.7	774.4	797.0	847.9	840.3
35°	1115.0	1105.6	1042.3	943.1	834.0	769.4	772.6	852.9	876.7	942.5	928.0
37.5°	1232.9	1227.8	1164.4	1050.4	923.1	846.5	850.4	936.9	967.0	1040.3	1022.7
40°	1359.5	1359.5	1294.9	1170.8	1022.1	930.1	935.6	1030.4	1066.7	1147.0	1117.5
42.5°	1493.8	1489.3	1421.0	1280.5	1120.7	1019.6	1031.0	1135.6	1176.4	1261.7	1231.6
45°	1626.1	1616.6	1545.8	1399.7	1219.2	1120.7	1137.5	1251.0	1293.7	1402.3	1360.2
47.5°	1740.2	1730.1	1660.5	1506.9	1322.6	1225.4	1249.2	1385.3	1430.4	1559.5	1495.6
50°	1821.7	1818.6	1750.9	1592.2	1414.7	1333.2	1383.3	1528.2	1582.2	1712.6	1652.4
52.5°	1869.4	1863.8	1809.8	1669.4	1506.9	1444.9	1521.3	1683.8	1740.8	1881.3	1811.1
55°	1858.7	1854.9	1816.7	1710.1	1579.1	1552.0	1674.4	1856.9	1910.2	2061.9	1978.4
57.5°	1774.7	1779.8	1768.4	1712.6	1632.4	1663.0	1831.0	2039.4	2095.7	2243.7	2154.7
60°	1624.8	1622.9	1655.0	1664.3	1653.6	1759.0	2020.5	2247.5	2290.7	2440.0	2326.5
62.5°	1403.4	1398.4	1468.0	1557.7	1638.1	1839.9	2191.0	2469.5	2512.8	2633.1	2485.2
65°	1131.9	1154.5	1241.6	1389.7	1560.2	1870.6	2356.6	2695.9	2731.6	2795.6	2609.9
67.5°	857.9	879.9	992.7	1180.2	1430.4	1834.9	2461.9	2899.0	2933.5	2950.4	2664.5
70°	626.5	647.8	754.4	960.1	1254.2	1731.4	2470.2	2986.8	3018.2	2976.8	2584.3
72.5°	445.9	457.1	548.7	743.7	1053.5	1550.2	2367.3	2930.5	2956.1	2841.4	2372.3
75°	315.4	320.4	399.5	565.6	857.9	1345.1	2122.7	2677.7	2697.7	2553.5	2017.4
77.5°	215.1	226.3	289.1	431.5	687.9	1104.3	1799.2	2295.7	2295.7	2112.6	1596.0
80°	152.4	161.8	207.6	322.4	538.6	884.8	1453.5	1824.2	1795.3	1587.7	1150.1
82.5°	109.7	117.2	153.6	245.9	418.3	699.3	1103.1	1350.8	1311.2	1108.1	760.0
85°	79.6	87.2	116.7	180.6	320.4	542.5	826.5	938.1	899.2	734.3	493.6
87.5°	58.4	63.4	87.2	136.0	242.7	410.7	606.4	637.1	602.7	474.7	316.7
90°	41.4	45.8	66.4	102.8	181.8	308.5	425.8	418.3	380.7	298.5	209.4
92.5°	30.0	33.3	49.5	78.3	135.5	226.3	292.9	270.3	249.0	191.9	145.6
95°	22.6	25.1	38.9	60.8	99.8	159.3	197.5	177.4	161.1	131.1	107.2
97.5°	18.1	20.1	32.0	48.9	77.1	116.1	136.7	117.2	109.7	94.7	82.8
100°	15.7	16.9	27.0	40.8	60.8	87.2	96.5	82.2	77.8	71.4	64.6
102.5°	14.4	15.1	23.8	35.1	49.5	65.2	69.6	61.4	58.4	54.5	50.8
105°	13.2	13.7	21.3	30.7	42.1	50.8	53.3	47.0	45.2	41.4	38.9
107.5°	12.6	12.6	18.8	27.0	35.7	42.1	42.1	37.0	35.1	31.3	30.0
110°	11.9	11.9	16.9	24.5	30.7	35.7	34.5	29.5	27.7	23.8	23.2



REPORT NUMBER: P240526

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	11.3	11.3	15.7	21.3	27.0	30.0	28.9	23.8	22.0	18.1	18.1
115°	10.7	10.7	13.7	18.8	23.8	25.6	24.5	19.4	18.1	14.4	15.1
117.5°	10.7	10.7	13.2	16.9	20.6	22.6	20.6	15.7	14.4	11.9	13.2
120°	10.1	10.1	11.9	15.1	18.1	19.4	17.6	13.2	11.9	10.1	11.3
122.5°	10.1	10.1	11.3	13.2	16.3	16.9	15.1	11.3	10.1	8.7	10.1
125°	9.4	9.4	10.7	11.9	13.7	14.4	12.6	9.4	8.7	8.2	8.7
127.5°	9.4	9.4	10.1	10.7	12.6	12.6	10.7	7.5	7.5	6.9	8.2
130°	8.7	9.4	9.4	10.1	10.7	10.7	8.7	6.2	6.2	6.2	7.5
132.5°	8.7	8.7	8.7	8.7	9.4	8.7	6.9	5.7	5.7	5.7	6.9
135°	8.2	8.2	8.2	8.2	7.5	6.9	5.7	4.4	4.4	5.0	6.2
137.5°	8.2	8.2	7.5	6.9	6.9	5.7	4.4	3.8	3.8	5.0	5.7
140°	7.5	7.5	6.9	6.2	5.0	4.4	3.2	3.2	3.2	3.8	4.4
142.5°	6.2	6.2	6.2	5.0	3.8	2.5	1.8	1.8	2.5	3.2	3.8
145°	5.7	5.7	5.0	4.4	2.5	1.2	0.6	1.2	1.8	2.5	3.2
147.5°	4.4	4.4	3.8	3.2	1.2	0.6	0.0	0.6	1.2	1.2	1.8
150°	3.2	3.2	3.2	1.8	0.6	0.0	0.0	0.6	0.6	0.6	1.2
152.5°	2.5	2.5	1.8	1.2	0.0	0.0	0.0	0.0	0.6	0.6	0.6
155°	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
157.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.6	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



REPORT NUMBER: P240526

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1
2.5°	164.3	163.7	160.5	158.0	154.9	152.4	149.9	148.0	147.4	146.1	146.7
5°	175.6	173.0	166.8	161.1	154.9	149.2	144.2	140.5	137.3	136.0	135.5
7.5°	195.0	191.3	180.0	169.9	159.9	149.9	141.7	135.5	131.6	129.2	129.2
10°	223.2	215.1	200.7	183.8	166.8	152.4	141.1	132.3	126.6	124.8	124.8
12.5°	257.8	249.0	226.3	200.7	176.9	156.8	141.7	132.3	126.6	124.1	123.6
15°	303.5	290.3	257.1	220.7	186.3	160.5	142.4	133.0	129.2	128.0	128.0
17.5°	357.5	341.1	292.9	242.7	196.8	162.5	144.2	136.7	134.8	134.8	134.8
20°	421.4	397.6	333.0	262.1	204.5	164.3	145.6	139.9	139.9	141.1	141.7
22.5°	489.8	459.7	371.9	280.4	206.9	165.5	144.9	141.1	144.2	147.4	148.0
25°	562.4	520.5	407.0	291.6	208.2	162.5	143.0	141.7	148.0	152.4	153.6
27.5°	639.6	582.6	437.0	296.0	204.5	156.8	139.9	140.5	149.9	156.1	157.5
30°	710.5	641.0	461.0	294.8	196.2	149.9	136.0	138.5	149.9	158.7	160.5
32.5°	783.8	698.6	475.4	289.1	186.3	142.4	131.6	136.7	149.2	159.3	161.1
35°	857.2	749.4	482.3	277.8	175.0	135.5	127.3	133.7	147.4	158.7	159.9
37.5°	930.6	799.6	484.1	263.5	164.9	129.8	124.1	131.6	144.2	157.5	159.3
40°	1009.7	849.1	480.3	249.0	155.4	126.0	121.6	129.2	141.7	155.4	158.0
42.5°	1098.0	901.7	476.0	234.6	149.2	123.6	119.7	126.6	138.0	153.6	156.8
45°	1196.5	959.4	473.4	223.2	145.6	122.3	119.2	124.8	136.0	152.4	155.4
47.5°	1302.5	1032.2	476.0	215.7	143.5	122.9	119.2	123.6	133.7	149.9	153.6
50°	1431.7	1115.6	485.3	210.1	143.0	123.6	119.7	122.3	131.1	146.1	149.9
52.5°	1565.2	1200.9	500.4	208.8	143.5	124.8	120.4	121.6	127.3	141.1	144.2
55°	1703.8	1313.8	526.1	210.7	144.9	126.6	121.1	120.4	124.1	134.8	138.5
57.5°	1860.5	1431.1	558.1	215.1	146.7	128.0	121.6	119.2	120.4	129.2	132.3
60°	2016.2	1550.2	590.8	220.7	150.4	129.8	122.3	118.5	118.5	125.4	128.0
62.5°	2157.3	1655.0	617.7	228.3	153.6	131.1	122.3	117.2	116.7	122.3	124.8
65°	2253.8	1710.1	624.0	232.6	156.8	131.6	121.1	116.1	115.4	119.7	122.3
67.5°	2279.4	1701.2	611.5	234.6	158.7	131.6	121.1	114.7	115.4	119.2	121.1
70°	2179.1	1610.4	570.0	230.7	158.0	131.1	119.7	113.5	114.7	118.5	119.7
72.5°	1939.6	1422.2	506.1	221.4	154.9	128.6	117.2	111.7	113.5	117.9	119.2
75°	1628.0	1178.4	430.2	206.3	149.2	125.4	114.7	109.2	112.2	116.7	117.2
77.5°	1252.3	903.0	351.9	186.9	141.7	121.1	111.0	105.3	109.7	114.7	114.1
80°	889.3	658.4	277.8	166.8	131.6	114.7	106.0	100.9	106.0	111.0	109.7
82.5°	612.7	446.6	222.1	147.4	121.1	107.8	100.3	95.9	101.6	106.0	104.2
85°	401.3	301.7	175.0	129.2	111.0	100.9	94.1	89.7	95.3	99.1	96.5
87.5°	259.0	210.1	139.9	112.2	100.3	93.4	87.2	83.4	89.0	92.3	89.7
90°	180.0	153.0	115.4	97.2	90.2	85.3	80.3	76.5	81.5	84.0	82.8
92.5°	128.6	117.2	95.9	85.3	81.5	77.1	72.7	69.6	74.7	76.5	75.3
95°	100.3	93.4	81.5	75.3	73.4	70.3	65.9	62.8	66.4	67.7	67.0
97.5°	80.3	77.1	70.3	66.4	65.2	62.8	59.5	56.5	59.0	59.5	59.0
100°	64.6	63.4	60.2	58.4	57.7	55.8	52.7	50.1	51.5	50.8	50.8
102.5°	51.5	51.5	50.8	50.1	50.1	48.3	45.8	43.2	43.2	42.1	42.1
105°	40.8	42.1	42.1	42.6	43.2	42.1	39.6	36.4	35.7	33.9	33.9
107.5°	32.0	33.3	35.1	35.7	36.4	35.1	33.3	30.0	28.2	26.3	27.0
110°	25.1	26.3	28.9	30.0	30.7	30.0	27.7	25.1	22.0	20.6	21.3



REPORT NUMBER: P240526

CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.4	21.3	23.8	25.1	25.6	25.1	22.6	20.1	16.9	16.3	16.3
115°	16.3	17.6	20.1	21.3	21.3	20.6	18.8	15.7	13.2	12.6	13.2
117.5°	13.7	15.1	16.9	18.1	18.1	17.6	15.7	12.6	10.7	10.7	10.7
120°	11.9	13.2	14.4	15.7	15.7	15.1	13.2	10.1	8.7	8.7	8.7
122.5°	10.7	11.3	12.6	13.2	13.2	12.6	10.7	8.2	6.9	7.5	7.5
125°	9.4	10.1	11.3	11.9	11.3	10.7	8.7	6.2	5.7	6.2	6.2
127.5°	8.7	9.4	10.1	10.1	10.1	8.7	7.5	5.0	5.0	5.7	5.7
130°	8.2	8.2	8.7	8.7	8.2	7.5	5.7	3.8	3.8	5.0	5.0
132.5°	7.5	7.5	8.2	7.5	7.5	6.2	4.4	3.2	3.8	4.4	4.4
135°	6.2	6.2	6.9	6.9	5.7	5.0	3.2	2.5	2.5	3.2	3.8
137.5°	5.7	6.2	6.2	5.7	5.0	3.8	2.5	1.8	2.5	2.5	3.2
140°	5.0	5.0	5.0	4.4	3.8	2.5	1.2	1.2	1.8	1.8	1.8
142.5°	3.8	4.4	4.4	3.8	2.5	1.2	0.6	0.6	1.2	1.2	1.2
145°	3.2	3.2	3.2	2.5	1.8	1.2	0.6	0.6	0.6	0.6	0.6
147.5°	1.8	2.5	2.5	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
150°	1.2	1.2	1.8	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0
152.5°	0.6	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.6	0.6	0.6	0.6	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)