

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: P240156

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
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-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3805.4 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

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



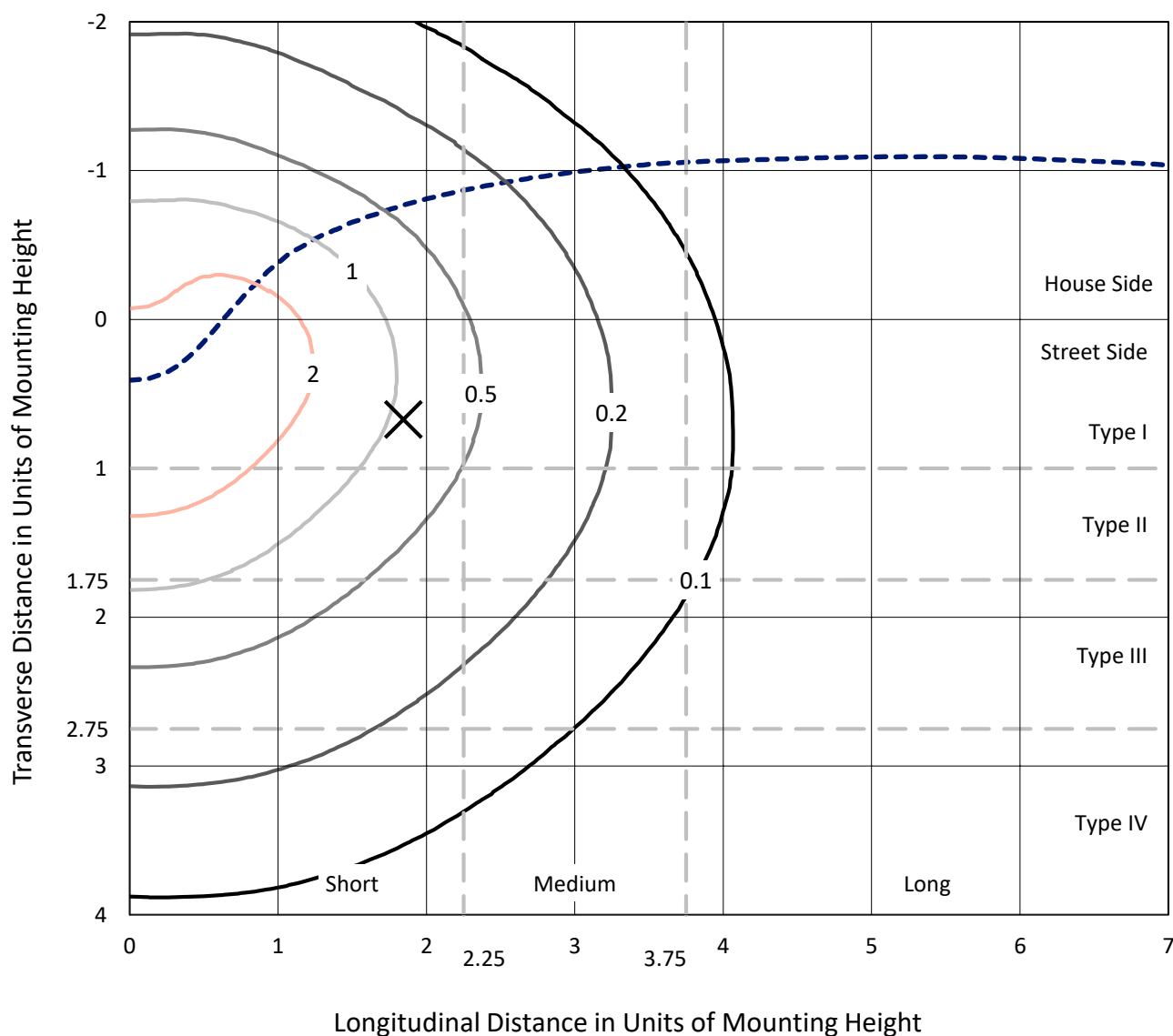
REPORT NUMBER: P240156

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

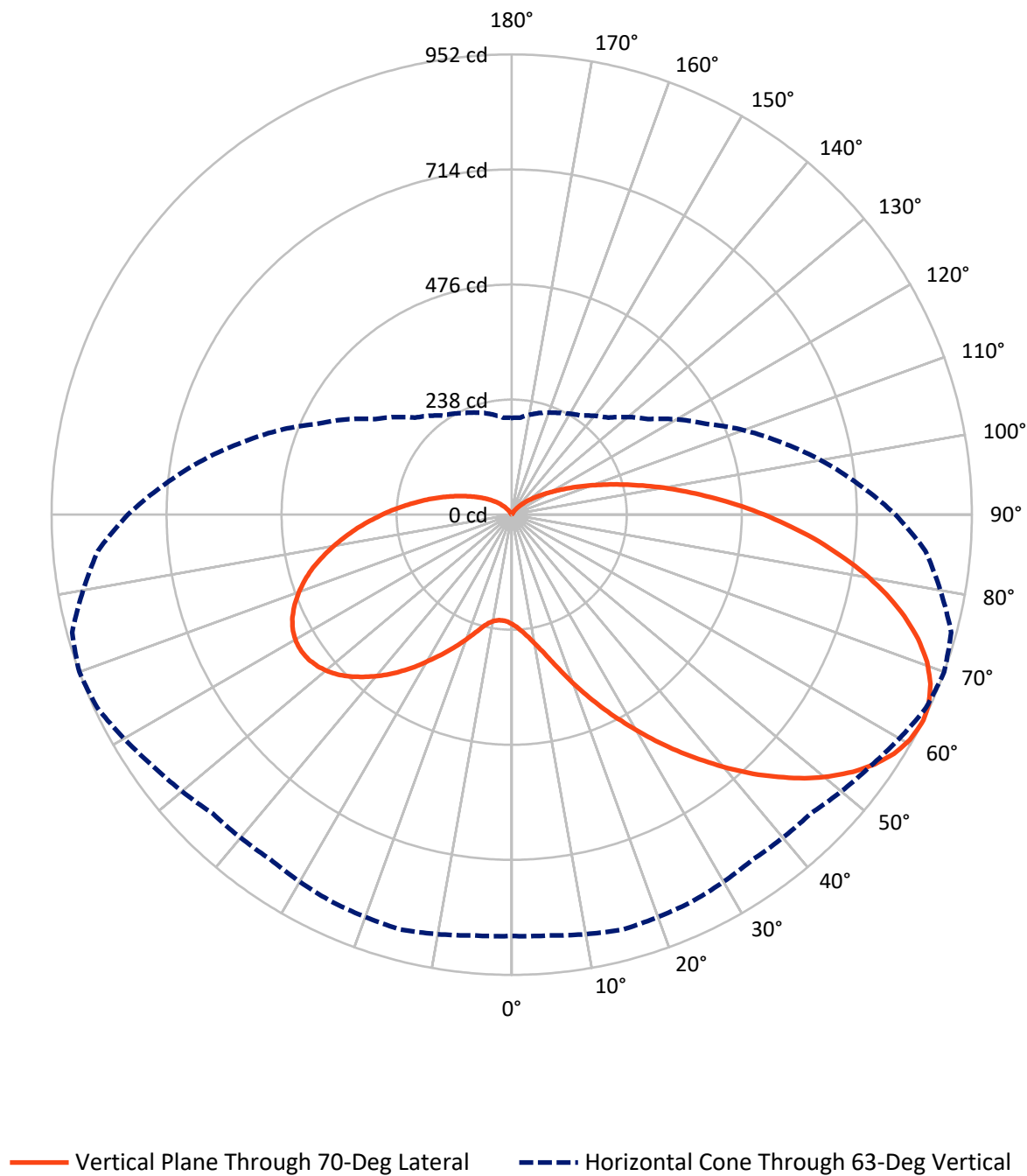


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P240156

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

Luminous Intensity Polar Plot



REPORT NUMBER: P240156

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

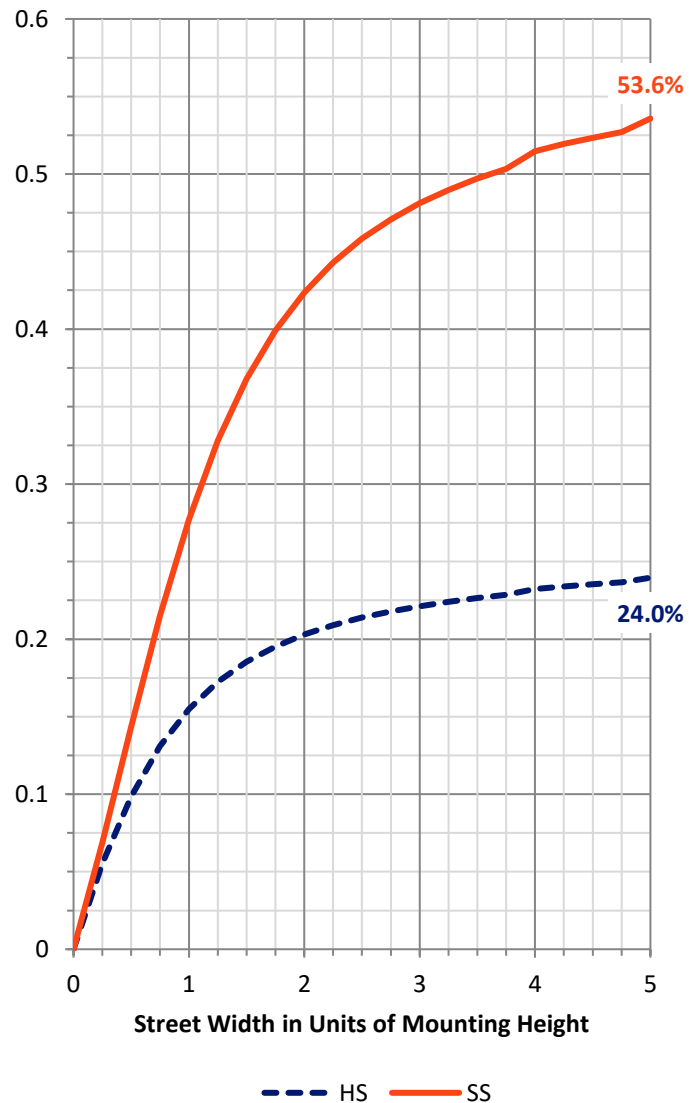
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	972.7	220.2	1192.8
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	2198.8	413.7	2612.5
	% Fixture	57.8	10.9	68.7
Total	Lumens	3171.5	633.9	3805.4
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	0.6
10°-20°	79.4	2.1
20°-30°	170.5	4.5
30°-40°	297.2	7.8
40°-50°	441.6	11.6
50°-60°	563.9	14.8
60°-70°	611.4	16.1
70°-80°	556.7	14.6
80°-90°	428.3	11.3
90°-100°	287.3	7.5
100°-110°	174.1	4.6
110°-120°	97.2	2.6
120°-130°	49.3	1.3
130°-140°	20.4	0.5
140°-150°	5.2	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3171.5	83.3
0°-180°	3805.4	100.0

Coefficient of Utilization



REPORT NUMBER: P240156

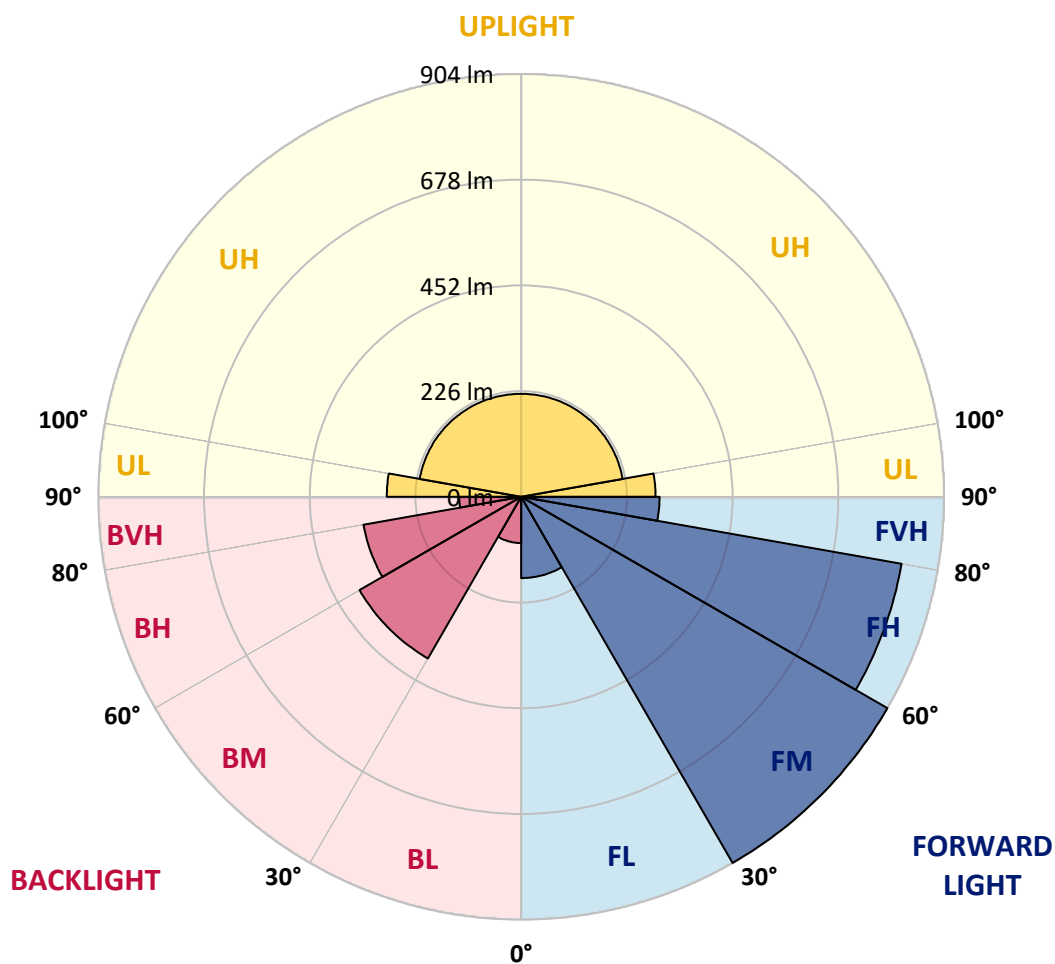
CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	173.7	4.6			
FM	(30°-60°)	903.8	23.8			
FH	(60°-80°)	825.7	21.7			G1/1800
FVH	(80°-90°)	295.7	7.8			G3/500
BL	(0°-30°)	98.8	2.6	B0/110		
BM	(30°-60°)	398.9	10.5	B1/1000		
BH	(60°-80°)	342.4	9.0	B1/500		G1/500
BVH	(80°-90°)	132.6	3.5			G2/225
UL	(90°-100°)	287.3	7.5		U3/500	
UH	(100°-180°)	220.2	5.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P240156

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	245.6	245.6	245.1	244.6	243.1	241.1	238.0	236.1	234.1	232.6	229.6
5°	266.6	267.6	265.6	264.6	261.1	257.1	252.6	247.0	244.6	241.1	235.1
7.5°	289.1	290.1	288.1	285.6	281.1	275.1	268.1	261.1	256.6	252.1	243.1
10°	314.1	314.7	312.1	309.1	303.6	296.1	288.6	278.1	273.1	267.1	255.1
12.5°	342.1	341.2	339.1	334.1	327.7	319.6	309.6	299.1	292.2	285.1	270.1
15°	374.1	373.7	370.1	364.2	356.1	347.1	335.1	323.7	316.6	309.1	291.1
17.5°	407.6	406.6	403.1	396.2	387.6	376.1	367.1	353.6	345.1	337.2	316.6
20°	441.2	440.7	438.1	430.2	420.6	411.6	399.7	385.7	377.2	366.1	342.6
22.5°	479.7	478.1	474.1	467.2	459.2	450.2	437.6	420.1	410.6	400.2	372.1
25°	518.2	517.7	512.7	505.1	498.7	488.7	476.7	456.1	446.6	432.2	402.1
27.5°	558.2	557.2	552.2	544.2	539.2	529.7	514.6	494.7	483.1	469.1	435.7
30°	599.8	599.2	593.2	585.2	579.7	570.7	555.2	533.7	522.2	506.7	469.1
32.5°	641.2	641.2	635.3	628.2	621.7	610.2	595.8	575.2	562.7	546.2	504.2
35°	684.8	682.2	677.7	671.3	660.7	649.3	636.3	617.8	604.8	586.8	542.2
37.5°	725.8	725.8	718.2	712.8	701.2	688.2	676.3	660.7	646.2	628.7	579.2
40°	766.3	766.8	759.7	752.8	737.8	725.8	715.2	702.8	689.8	671.8	619.7
42.5°	805.3	804.2	797.8	789.8	773.2	759.7	753.3	742.8	733.3	714.2	658.8
45°	841.3	838.8	833.8	824.3	805.3	791.8	789.3	784.3	774.3	757.3	698.3
47.5°	869.3	867.8	865.8	853.3	833.8	820.8	820.8	822.8	815.3	797.8	735.3
50°	892.3	891.8	890.8	876.8	855.8	845.8	849.8	856.8	851.8	836.3	768.2
52.5°	907.9	907.4	908.8	894.4	873.8	864.8	874.3	888.3	884.3	870.3	799.7
55°	913.8	913.8	918.3	904.8	884.3	877.3	892.8	912.4	911.9	899.4	823.8
57.5°	911.3	911.9	919.8	907.4	888.3	884.3	904.8	931.3	933.3	920.9	843.8
60°	899.8	900.3	911.3	901.8	885.4	884.3	910.3	942.9	946.8	935.8	855.3
62.5°	877.8	879.8	893.3	887.3	873.8	877.3	908.4	946.3	951.9	941.3	859.8
63°	871.9	874.3	888.8	883.3	870.8	874.8	906.8	946.3	952.4	941.8	859.8
65°	847.3	850.3	866.8	864.3	855.3	862.9	898.4	940.8	948.4	938.9	855.3
67.5°	807.8	813.8	832.8	834.8	830.3	841.8	880.9	926.8	934.9	925.9	841.8
70°	760.3	767.3	791.8	797.8	796.8	813.8	855.3	903.4	911.9	902.9	818.8
72.5°	709.2	718.7	741.2	754.3	760.8	779.3	823.8	871.3	879.8	870.3	788.3
75°	653.8	663.7	691.7	707.8	717.8	740.7	784.8	832.3	839.8	832.3	749.8
77.5°	598.2	608.2	636.7	657.2	672.8	700.2	743.8	787.3	792.8	784.8	704.7
80°	541.2	552.7	580.2	604.3	625.2	652.7	694.8	734.3	740.7	730.3	656.2
82.5°	484.7	494.7	525.7	553.7	576.2	603.7	643.7	680.8	683.7	673.2	602.7
85°	433.6	442.1	472.7	502.7	529.2	556.2	593.2	622.8	627.3	613.8	549.7
87.5°	385.7	392.1	424.1	453.7	480.7	510.7	543.7	567.2	567.2	556.7	494.2
90°	341.2	345.7	374.6	407.1	436.2	462.7	493.7	513.7	511.2	498.2	442.1
92.5°	298.1	303.6	332.2	363.1	392.6	420.1	445.2	458.7	455.2	441.7	392.1
95°	262.6	265.0	293.1	325.1	352.1	377.2	399.2	408.7	403.1	389.6	342.6
97.5°	230.1	232.1	256.6	287.1	316.1	339.1	354.1	360.2	354.7	341.2	302.1
100°	203.6	204.1	226.1	255.6	282.6	302.6	316.1	316.1	311.1	297.6	262.1
102.5°	177.6	178.6	196.6	226.1	251.5	269.1	279.6	278.7	269.5	256.0	227.6
105°	156.5	157.5	171.5	200.1	223.1	239.1	247.6	241.6	233.1	221.1	197.1
107.5°	138.1	138.5	149.6	175.0	197.1	212.1	216.6	210.1	200.6	189.0	172.1



REPORT NUMBER: P240156

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	123.6	123.1	131.6	153.5	174.5	187.1	189.6	181.6	172.1	162.5	148.5
112.5°	109.6	109.6	115.1	133.6	153.0	165.1	166.0	154.6	146.6	138.1	129.1
115°	98.0	97.5	101.6	116.0	134.0	144.0	143.0	132.6	125.0	118.0	112.0
117.5°	88.1	87.1	90.0	100.0	116.5	126.0	123.6	111.5	106.1	101.1	97.5
120°	79.1	78.6	80.0	87.1	100.0	107.5	105.1	94.5	89.5	87.1	85.0
122.5°	71.0	71.0	70.5	75.0	85.0	91.0	87.6	79.1	76.0	74.6	74.6
125°	64.0	64.0	63.0	64.5	71.0	76.0	73.0	66.0	64.0	64.0	64.5
127.5°	57.0	57.0	56.1	55.5	58.5	62.0	58.5	54.5	54.0	54.5	55.5
130°	50.5	50.0	49.0	47.1	47.6	49.0	46.5	44.5	45.0	46.5	47.6
132.5°	44.5	44.0	42.6	39.5	37.5	37.5	35.5	35.5	37.0	38.5	40.5
135°	38.5	38.1	36.5	33.0	29.5	27.5	26.0	28.0	30.0	31.5	33.6
137.5°	32.5	32.0	30.0	26.5	22.0	19.0	18.5	21.5	23.5	25.5	27.0
140°	26.5	26.0	24.0	20.5	15.5	12.0	12.0	16.0	18.0	19.5	21.5
142.5°	21.0	20.5	19.0	15.0	10.0	7.5	8.0	11.5	13.0	14.5	16.0
145°	15.5	15.5	14.0	10.5	6.0	3.5	4.5	7.5	9.0	10.0	11.5
147.5°	10.5	10.5	9.0	6.5	3.5	1.5	2.0	4.5	5.5	6.5	7.5
150°	6.5	6.5	5.5	3.5	1.5	0.0	1.0	2.0	3.0	3.5	4.5
152.5°	3.5	3.5	2.5	1.5	0.5	0.0	0.0	1.0	1.0	1.5	2.0
155°	1.5	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.0	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



REPORT NUMBER: P240156

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	228.1	226.6	223.1	220.5	217.6	215.1	213.6	211.0	209.6	210.1	209.6
5°	232.1	229.0	222.6	217.1	211.0	206.1	202.0	198.6	196.6	195.1	195.6
7.5°	238.6	234.1	224.5	215.5	206.5	199.1	193.0	188.5	184.5	183.5	183.1
10°	248.6	242.5	229.0	217.1	205.6	195.1	187.1	180.6	176.6	174.5	174.5
12.5°	262.6	254.1	237.1	221.1	206.5	193.5	183.5	175.5	171.0	169.1	168.6
15°	282.1	271.6	250.6	229.0	210.6	195.1	183.1	175.0	171.5	170.5	170.0
17.5°	304.6	293.1	267.1	242.1	218.6	199.1	187.6	181.1	177.1	175.0	174.5
20°	330.1	315.1	285.6	256.6	230.1	209.6	196.6	187.6	182.6	180.0	179.5
22.5°	356.1	339.6	305.7	272.1	243.1	224.1	205.6	194.6	187.6	184.5	183.5
25°	384.1	365.6	326.1	288.6	259.1	237.6	216.6	200.6	192.5	189.0	189.0
27.5°	414.2	392.6	347.6	305.7	275.6	250.1	227.1	207.0	197.5	193.5	193.0
30°	445.7	421.7	369.6	324.1	291.1	261.6	236.1	214.1	202.5	198.0	197.5
32.5°	479.7	452.1	394.1	344.1	305.7	272.1	244.1	220.5	207.0	201.6	201.1
35°	513.2	482.2	417.2	363.7	318.6	281.1	250.6	227.1	210.6	205.1	204.6
37.5°	550.2	514.2	441.7	382.7	330.6	288.1	256.0	232.1	214.1	208.1	207.0
40°	585.7	545.7	464.6	399.7	340.6	294.6	260.5	236.6	217.1	210.6	209.6
42.5°	620.7	577.7	487.6	415.6	349.1	298.6	263.6	239.6	220.0	212.6	211.0
45°	655.7	607.7	511.2	428.6	355.7	302.1	265.6	242.1	222.6	213.6	212.6
47.5°	688.2	637.2	532.7	440.2	360.2	303.6	266.6	243.1	224.5	214.1	212.6
50°	719.2	662.8	550.7	448.7	363.1	303.6	266.6	243.6	225.6	214.1	213.1
52.5°	746.2	684.8	565.2	454.2	363.7	302.1	265.0	243.1	225.6	213.1	211.5
55°	766.8	702.8	575.7	456.6	362.1	299.6	262.6	241.6	225.0	211.5	210.1
57.5°	783.3	715.2	582.2	456.1	358.6	295.6	259.6	239.6	223.6	209.1	207.6
60°	793.3	721.8	583.2	452.7	353.6	290.6	255.6	236.6	221.6	206.5	204.6
62.5°	794.8	721.3	579.7	445.7	346.2	284.6	250.6	232.6	218.1	202.5	200.6
63°	794.3	720.8	577.7	444.2	344.6	283.6	250.1	232.1	217.6	201.6	200.1
65°	788.8	714.7	570.2	436.2	337.6	277.6	245.6	228.1	214.6	198.6	196.1
67.5°	774.3	701.2	556.2	422.7	327.1	269.5	239.1	223.1	209.6	193.5	191.1
70°	752.3	682.2	537.2	407.6	316.1	261.1	232.1	216.6	204.1	188.0	185.1
72.5°	722.7	654.7	515.2	390.2	303.1	251.5	224.1	209.6	197.1	182.1	177.6
75°	687.2	622.8	490.7	371.1	289.1	241.6	216.0	202.5	190.1	175.0	170.5
77.5°	644.8	586.3	460.1	351.1	275.6	231.1	207.0	194.1	182.1	167.0	162.5
80°	599.2	545.7	429.6	328.6	260.5	220.0	198.0	185.1	173.1	159.1	153.5
82.5°	551.2	502.2	397.1	307.1	245.6	208.6	188.5	175.5	164.1	150.6	145.6
85°	502.7	458.7	365.6	285.6	230.1	197.5	178.6	166.5	154.1	141.1	136.1
87.5°	454.7	416.1	335.1	263.1	215.5	186.6	168.6	156.5	144.0	131.6	127.6
90°	408.7	375.1	303.1	242.1	200.6	174.5	158.6	146.6	134.5	122.0	118.0
92.5°	362.6	333.6	274.2	223.1	186.6	163.6	148.5	136.6	124.1	112.0	109.6
95°	321.6	296.7	246.6	202.5	173.1	153.0	138.5	127.1	114.1	102.5	101.1
97.5°	283.2	261.6	219.6	185.1	159.6	141.6	128.6	116.5	103.5	93.0	92.1
100°	248.6	231.1	196.6	167.0	146.1	131.0	119.1	107.0	94.0	85.0	84.0
102.5°	217.1	203.1	175.0	151.1	134.0	120.5	108.5	97.1	84.5	76.5	76.5
105°	190.1	177.6	155.1	136.1	121.5	109.6	98.5	87.1	74.6	68.0	68.0
107.5°	164.6	156.1	137.6	121.5	110.1	99.5	89.0	77.5	65.6	60.6	61.1



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	143.5	136.6	121.0	109.0	99.5	90.0	80.0	68.5	57.0	53.5	54.0
112.5°	125.0	119.6	106.5	97.1	89.0	81.0	71.0	59.5	49.5	47.6	48.0
115°	109.0	104.5	94.5	86.0	79.5	72.0	63.0	51.6	43.1	42.0	42.0
117.5°	95.0	91.6	83.1	76.5	70.5	64.0	55.0	44.5	37.0	37.0	37.0
120°	83.6	80.5	73.6	67.5	62.5	56.1	47.6	37.5	32.0	32.5	32.5
122.5°	72.5	70.5	64.0	59.5	54.5	49.0	40.5	31.0	27.5	28.5	29.1
125°	63.5	61.5	56.6	51.6	47.1	41.5	33.6	26.0	24.0	25.0	25.0
127.5°	54.5	53.5	49.0	44.5	40.5	35.0	27.5	21.5	21.0	22.0	22.0
130°	47.1	46.0	42.6	37.5	33.6	28.5	22.0	17.5	17.5	18.5	18.5
132.5°	40.0	39.5	36.0	31.5	27.5	22.5	17.5	14.0	15.0	16.0	16.0
135°	33.0	33.0	30.0	25.5	21.5	17.0	13.0	11.5	12.5	13.5	13.5
137.5°	27.0	26.5	24.0	20.0	16.0	12.5	9.5	9.0	10.5	11.5	11.5
140°	21.5	21.0	19.0	15.5	11.5	8.5	6.5	7.0	8.5	9.0	9.5
142.5°	16.0	16.0	14.0	11.5	7.5	5.0	4.0	5.5	6.5	7.0	7.5
145°	11.5	11.5	10.0	7.5	4.5	2.5	2.5	4.0	5.0	5.5	5.5
147.5°	7.5	7.5	6.5	4.5	2.5	1.0	1.5	2.5	3.5	4.0	4.0
150°	4.5	4.0	3.5	2.0	1.0	0.0	0.5	1.0	2.0	2.5	2.0
152.5°	2.0	2.0	1.5	1.0	0.5	0.0	0.0	0.0	0.5	1.0	1.0
155°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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)