

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: P266348

Luminaire Tested: **UTLD-AF24-40-D-U-T3-FP-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266348  
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-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 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: 3232 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

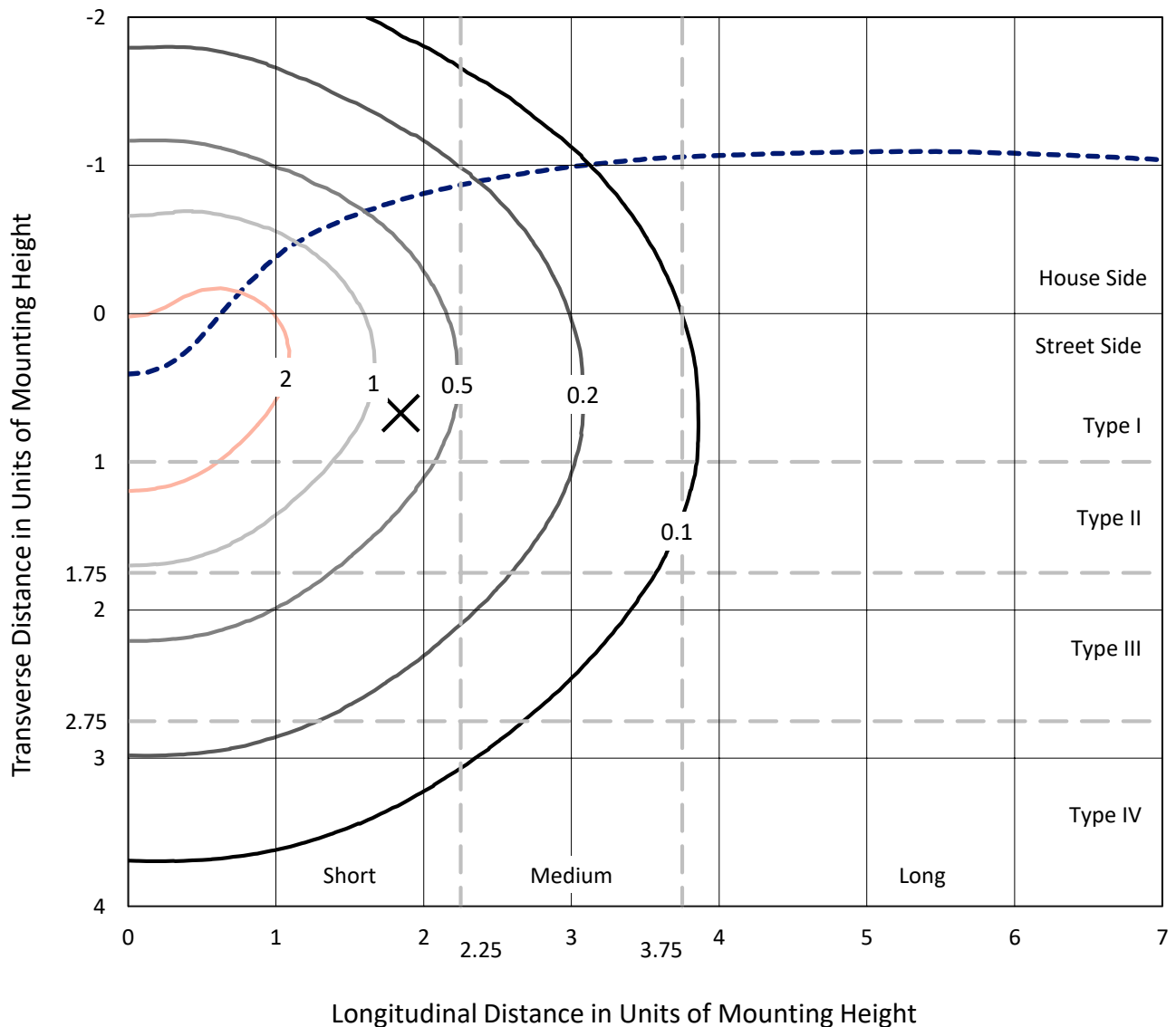
Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P266348  
 CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP-7027

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

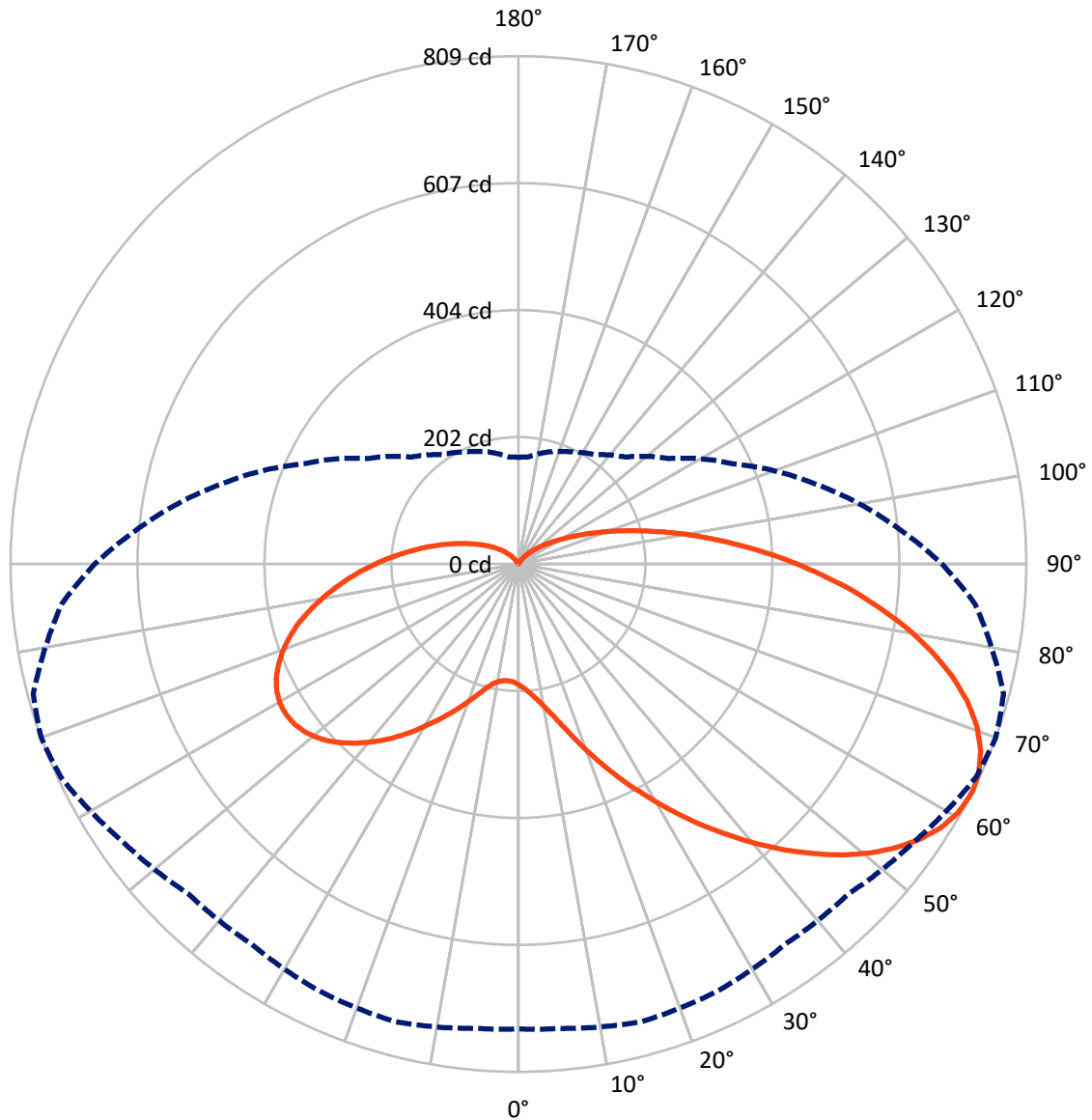


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P266348

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP-7027

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P266348

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP-7027

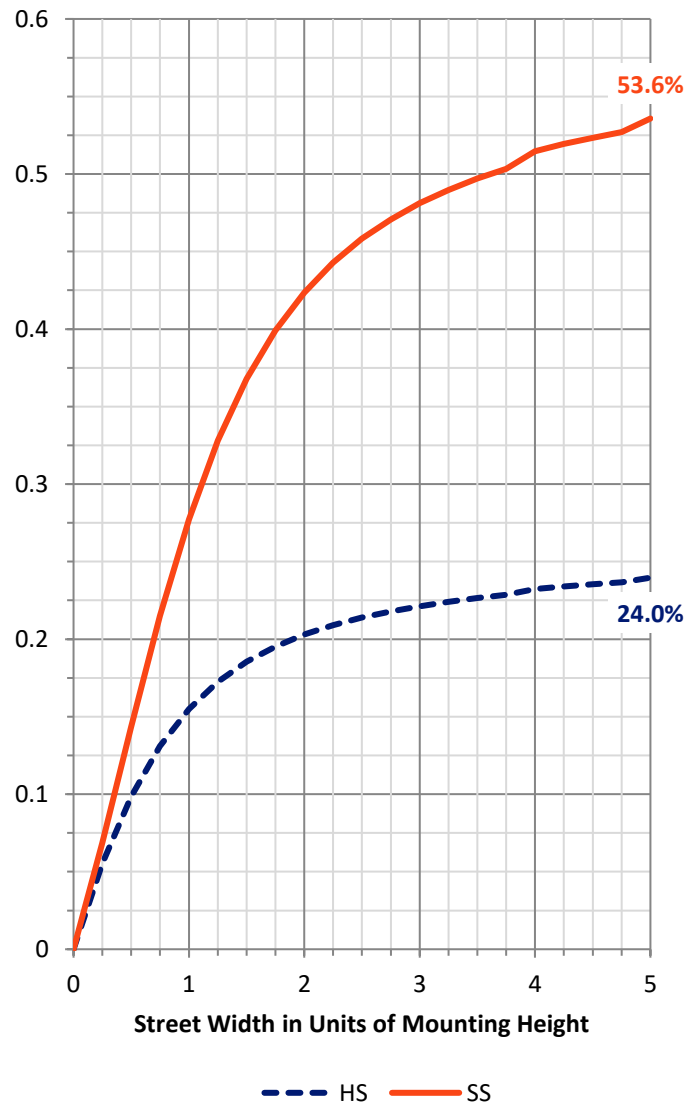
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	826.1	187.0	1013.1
	% Fixture	25.6	5.8	31.3
<b>Street Side</b>	Lumens	1867.5	351.4	2218.9
	% Fixture	57.8	10.9	68.7
<b>Total</b>	Lumens	2693.7	538.4	3232.0
	% Fixture	83.3	16.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.2	0.6
10°-20°	67.4	2.1
20°-30°	144.9	4.5
30°-40°	252.4	7.8
40°-50°	375.1	11.6
50°-60°	478.9	14.8
60°-70°	519.2	16.1
70°-80°	472.8	14.6
80°-90°	363.7	11.3
90°-100°	244.0	7.5
100°-110°	147.9	4.6
110°-120°	82.5	2.6
120°-130°	41.9	1.3
130°-140°	17.3	0.5
140°-150°	4.4	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2693.7	83.3
0°-180°	3232.0	100.0



REPORT NUMBER: P266348

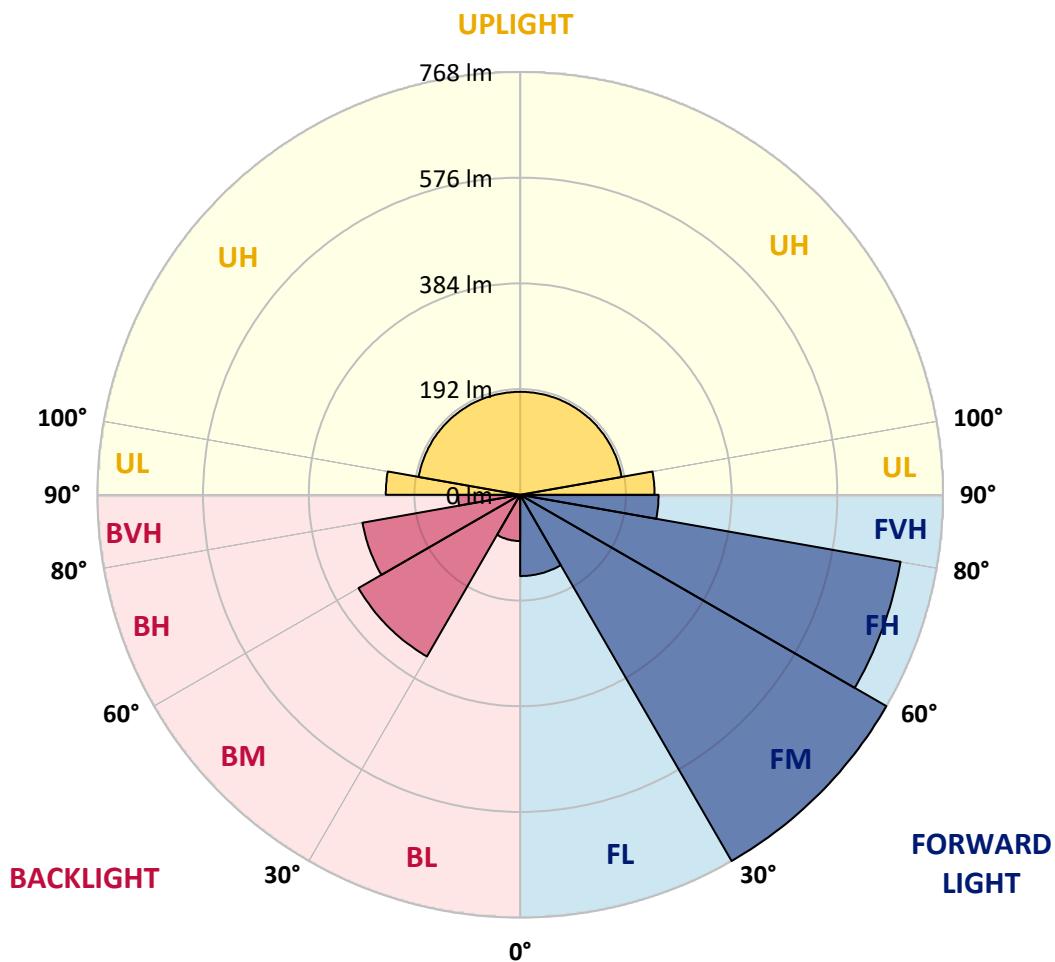
CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP-7027

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.5	4.6			
FM	(30°-60°)	767.6	23.8			
FH	(60°-80°)	701.3	21.7			G1/1800
FVH	(80°-90°)	251.1	7.8			G3/500
BL	(0°-30°)	83.9	2.6	B0/110		
BM	(30°-60°)	338.8	10.5	B1/1000		
BH	(60°-80°)	290.8	9.0	B1/500		G1/500
BVH	(80°-90°)	112.6	3.5			G2/225
UL	(90°-100°)	244.0	7.5		U3/500	
UH	(100°-180°)	187.0	5.8		U3/500	

**BUG Rating: B1-U3-G3**

Type IV Short





REPORT NUMBER: P266348

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	192.9	192.9	192.9	192.9	192.9	192.9	192.9	192.9	192.9	192.9	192.9
2.5°	208.5	208.5	208.1	207.8	206.5	204.8	202.2	200.5	198.9	197.5	195.0
5°	226.5	227.4	225.6	224.8	221.7	218.4	214.5	209.8	207.8	204.8	199.7
7.5°	245.5	246.3	244.7	242.5	238.8	233.6	227.7	221.7	217.8	214.1	206.5
10°	266.7	267.2	265.1	262.6	257.9	251.4	245.1	236.3	231.9	226.8	216.6
12.5°	290.6	289.8	288.0	283.8	278.3	271.5	262.9	254.0	248.1	242.2	229.3
15°	317.8	317.3	314.3	309.2	302.5	294.9	284.7	274.8	269.0	262.6	247.3
17.5°	346.2	345.4	342.4	336.4	329.1	319.4	311.8	300.4	293.1	286.3	269.0
20°	374.8	374.2	372.2	365.3	357.3	349.6	339.4	327.5	320.3	311.0	291.1
22.5°	407.4	406.2	402.7	396.8	390.0	382.4	371.7	356.8	348.8	339.9	316.1
25°	440.1	439.7	435.5	429.1	423.6	415.0	404.9	387.3	379.4	367.0	341.5
27.5°	474.0	473.2	468.9	462.2	458.0	450.0	437.1	420.1	410.3	398.5	370.0
30°	509.3	508.9	503.8	497.0	492.5	484.7	471.5	453.3	443.6	430.4	398.5
32.5°	544.6	544.6	539.5	533.6	528.1	518.3	505.9	488.6	477.9	464.0	428.2
35°	581.7	579.4	575.6	570.2	561.3	551.4	540.4	524.7	513.7	498.3	460.6
37.5°	616.3	616.3	610.0	605.4	595.5	584.5	574.3	561.3	548.9	534.0	491.9
40°	650.8	651.2	645.3	639.4	626.6	616.3	607.6	596.8	585.9	570.6	526.3
42.5°	684.0	683.2	677.6	670.8	656.8	645.3	639.8	630.9	622.7	606.6	559.5
45°	714.5	712.4	708.1	700.0	684.0	672.6	670.3	666.2	657.6	643.1	593.1
47.5°	738.3	737.1	735.4	724.8	708.1	697.2	697.2	698.8	692.5	677.6	624.5
50°	757.9	757.5	756.6	744.8	726.9	718.4	721.8	727.6	723.5	710.3	652.4
52.5°	771.0	770.7	772.0	759.5	742.2	734.5	742.5	754.4	751.2	739.1	679.3
55°	776.1	776.1	780.0	768.5	751.2	745.1	758.3	774.9	774.5	763.7	699.7
57.5°	774.0	774.5	781.3	770.7	754.4	751.2	768.5	791.0	792.8	782.1	716.7
60°	764.3	764.6	774.0	766.0	751.9	751.2	773.3	800.7	804.3	794.8	726.4
62.5°	745.6	747.3	758.7	753.6	742.2	745.1	771.5	803.8	808.5	799.5	730.2
63°	740.5	742.5	754.8	750.3	739.7	743.0	770.1	803.8	808.8	799.9	730.2
65°	719.6	722.1	736.3	734.0	726.4	732.7	763.0	799.1	805.5	797.3	726.4
67.5°	686.0	691.2	707.3	709.0	705.2	715.1	748.1	787.2	794.0	786.3	715.1
70°	645.7	651.7	672.6	677.6	676.8	691.2	726.4	767.2	774.5	766.9	695.5
72.5°	602.5	610.5	629.6	640.6	646.2	662.0	699.7	740.1	747.3	739.1	669.4
75°	555.2	563.7	587.5	601.1	609.6	629.2	666.5	706.8	713.3	706.8	636.8
77.5°	508.1	516.5	540.8	558.1	571.4	594.8	631.7	668.7	673.3	666.5	598.6
80°	459.7	469.5	492.8	513.2	531.0	554.3	590.0	623.7	629.2	620.2	557.4
82.5°	411.7	420.1	446.5	470.3	489.3	512.8	546.8	578.1	580.8	571.9	511.9
85°	368.3	375.5	401.5	427.0	449.4	472.4	503.8	528.9	532.8	521.2	466.8
87.5°	327.5	333.0	360.2	385.4	408.3	433.7	461.8	481.8	481.8	472.8	419.7
90°	289.8	293.6	318.2	345.8	370.5	393.0	419.2	436.2	434.2	423.1	375.5
92.5°	253.2	257.9	282.1	308.4	333.5	356.8	378.0	389.5	386.6	375.1	333.0
95°	223.0	225.1	248.9	276.0	299.0	320.3	339.0	347.0	342.4	330.9	291.1
97.5°	195.4	197.1	217.8	243.8	268.6	288.0	300.8	305.9	301.2	289.8	256.6
100°	173.0	173.4	192.0	217.1	240.0	257.1	268.6	268.6	264.2	252.8	222.6
102.5°	150.8	151.6	166.9	192.0	213.6	228.6	237.5	236.7	229.0	217.5	193.2
105°	132.9	133.8	145.7	169.9	189.5	203.0	210.4	205.3	197.9	187.7	167.4
107.5°	117.3	117.7	127.0	148.7	167.4	180.1	184.0	178.5	170.4	160.5	146.2



REPORT NUMBER: P266348

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP-7027

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	104.9	104.6	111.7	130.4	148.3	158.9	160.9	154.1	146.2	138.1	126.2
112.5°	93.1	93.1	97.7	113.5	130.0	140.1	141.0	131.2	124.4	117.3	109.7
115°	83.3	82.9	86.2	98.5	113.8	122.3	121.5	112.6	106.2	100.3	95.2
117.5°	74.7	73.9	76.4	85.0	99.1	107.1	104.9	94.7	90.1	85.8	82.9
120°	67.2	66.7	68.0	73.9	85.0	91.4	89.2	80.3	76.0	73.9	72.3
122.5°	60.4	60.4	59.8	63.7	72.3	77.3	74.3	67.2	64.6	63.3	63.3
125°	54.3	54.3	53.4	54.7	60.4	64.6	62.1	56.1	54.3	54.3	54.7
127.5°	48.4	48.4	47.6	47.2	49.6	52.7	49.6	46.4	45.9	46.4	47.2
130°	42.8	42.5	41.6	40.0	40.3	41.6	39.5	37.8	38.3	39.5	40.3
132.5°	37.8	37.4	36.1	33.5	31.9	31.9	30.2	30.2	31.4	32.7	34.5
135°	32.7	32.2	31.0	28.0	25.1	23.4	22.1	23.7	25.5	26.8	28.4
137.5°	27.6	27.2	25.5	22.5	18.7	16.1	15.7	18.2	19.9	21.6	22.9
140°	22.5	22.1	20.4	17.3	13.1	10.2	10.2	13.7	15.4	16.6	18.2
142.5°	17.8	17.3	16.1	12.8	8.5	6.4	6.7	9.8	11.0	12.3	13.7
145°	13.1	13.1	11.9	9.0	5.1	3.0	3.9	6.4	7.6	8.5	9.8
147.5°	9.0	9.0	7.6	5.5	3.0	1.3	1.6	3.9	4.8	5.5	6.4
150°	5.5	5.5	4.8	3.0	1.3	0.0	0.9	1.6	2.5	3.0	3.9
152.5°	3.0	3.0	2.2	1.3	0.4	0.0	0.0	0.9	0.9	1.3	1.6
155°	1.3	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	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: P266348

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	192.9	192.9	192.9	192.9	192.9	192.9	192.9	192.9	192.9	192.9	192.9
2.5°	193.8	192.4	189.5	187.3	184.8	182.6	181.4	179.3	178.0	178.5	178.0
5°	197.1	194.6	189.1	184.4	179.3	175.0	171.7	168.6	166.9	165.6	166.0
7.5°	202.7	198.9	190.7	183.2	175.4	169.2	164.0	160.2	156.8	155.9	155.4
10°	211.1	206.0	194.6	184.4	174.6	165.6	158.9	153.4	149.9	148.3	148.3
12.5°	223.0	215.9	201.4	187.7	175.4	164.4	155.9	149.1	145.3	143.5	143.2
15°	239.6	230.7	212.9	194.6	178.9	165.6	155.4	148.7	145.7	144.8	144.4
17.5°	258.7	248.9	226.8	205.6	185.6	169.2	159.3	153.8	150.3	148.7	148.3
20°	280.5	267.6	242.5	217.8	195.4	178.0	166.9	159.3	155.0	152.9	152.5
22.5°	302.5	288.4	259.6	231.1	206.5	190.4	174.6	165.3	159.3	156.8	155.9
25°	326.3	310.5	276.9	245.1	220.1	201.8	184.0	170.4	163.5	160.5	160.5
27.5°	351.7	333.5	295.3	259.6	234.1	212.4	192.9	175.9	167.9	164.4	164.0
30°	378.5	358.2	314.0	275.3	247.3	222.2	200.5	181.8	172.0	168.3	167.9
32.5°	407.4	384.0	334.8	292.3	259.6	231.1	207.2	187.3	175.9	171.1	170.8
35°	435.9	409.5	354.3	308.8	270.6	238.8	212.9	192.9	178.9	174.2	173.7
37.5°	467.3	436.8	375.1	324.9	280.8	244.7	217.5	197.1	181.8	176.7	175.9
40°	497.4	463.4	394.6	339.4	289.3	250.2	221.3	201.0	184.4	178.9	178.0
42.5°	527.1	490.7	414.2	353.0	296.5	253.6	223.9	203.5	186.8	180.6	179.3
45°	556.9	516.2	434.2	364.1	302.0	256.6	225.6	205.6	189.1	181.4	180.6
47.5°	584.5	541.1	452.4	373.9	305.9	257.9	226.5	206.5	190.7	181.8	180.6
50°	610.8	562.9	467.7	381.2	308.4	257.9	226.5	206.9	191.6	181.8	181.0
52.5°	633.8	581.7	480.1	385.7	308.8	256.6	225.1	206.5	191.6	181.0	179.8
55°	651.2	596.8	488.9	387.9	307.6	254.5	223.0	205.3	191.2	179.8	178.5
57.5°	665.3	607.6	494.4	387.3	304.5	251.0	220.4	203.5	189.9	177.5	176.2
60°	673.8	613.1	495.3	384.5	300.4	246.9	217.1	201.0	188.1	175.4	173.7
62.5°	675.0	612.6	492.5	378.5	293.9	241.7	212.9	197.5	185.2	172.0	170.4
63°	674.5	612.1	490.7	377.3	292.7	240.8	212.4	197.1	184.8	171.1	169.9
65°	670.0	607.1	484.2	370.5	286.7	235.7	208.5	193.8	182.3	168.6	166.5
67.5°	657.6	595.5	472.4	359.0	277.8	229.0	203.0	189.5	178.0	164.4	162.2
70°	639.0	579.4	456.2	346.2	268.6	221.7	197.1	184.0	173.4	159.7	157.2
72.5°	613.8	556.1	437.6	331.4	257.5	213.6	190.4	178.0	167.4	154.7	150.8
75°	583.7	528.9	416.8	315.2	245.5	205.3	183.6	172.0	161.4	148.7	144.8
77.5°	547.5	497.9	390.9	298.1	234.1	196.3	175.9	164.7	154.7	141.9	138.1
80°	508.9	463.4	364.9	279.2	221.3	186.8	168.3	157.2	147.1	135.0	130.4
82.5°	468.1	426.5	337.4	260.9	208.5	177.1	160.2	149.1	139.3	127.9	123.6
85°	427.0	389.5	310.5	242.5	195.4	167.9	151.6	141.5	130.9	119.8	115.5
87.5°	386.1	353.5	284.7	223.5	183.2	158.5	143.2	132.9	122.3	111.7	108.3
90°	347.0	318.5	257.5	205.6	170.4	148.3	134.7	124.4	114.3	103.7	100.3
92.5°	307.9	283.3	232.8	189.5	158.5	138.9	126.2	116.1	105.3	95.2	93.1
95°	273.2	252.0	209.5	172.0	147.1	130.0	117.7	107.8	96.8	87.0	85.8
97.5°	240.4	222.2	186.5	157.2	135.6	120.3	109.1	99.1	87.9	79.1	78.2
100°	211.1	196.3	166.9	141.9	124.1	111.3	101.1	90.9	79.9	72.3	71.3
102.5°	184.4	172.5	148.7	128.3	113.8	102.3	92.2	82.5	71.8	64.9	64.9
105°	161.4	150.8	131.7	115.5	103.2	93.1	83.7	73.9	63.3	57.9	57.9
107.5°	139.7	132.5	116.8	103.2	93.5	84.5	75.5	65.8	55.7	51.5	51.8



REPORT NUMBER: P266348

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	121.9	116.1	102.8	92.6	84.5	76.4	68.0	58.2	48.4	45.5	45.9
112.5°	106.2	101.5	90.5	82.5	75.5	68.8	60.4	50.6	42.1	40.3	40.9
115°	92.6	88.8	80.3	73.0	67.6	61.2	53.4	43.7	36.6	35.8	35.8
117.5°	80.7	77.8	70.5	64.9	59.8	54.3	46.7	37.8	31.4	31.4	31.4
120°	71.0	68.5	62.4	57.3	53.1	47.6	40.3	31.9	27.2	27.6	27.6
122.5°	61.7	59.8	54.3	50.6	46.4	41.6	34.5	26.3	23.4	24.3	24.7
125°	54.0	52.2	48.0	43.7	40.0	35.3	28.4	22.1	20.4	21.2	21.2
127.5°	46.4	45.5	41.6	37.8	34.5	29.7	23.4	18.2	17.8	18.7	18.7
130°	40.0	39.0	36.1	31.9	28.4	24.3	18.7	14.8	14.8	15.7	15.7
132.5°	34.0	33.5	30.6	26.8	23.4	19.1	14.8	11.9	12.8	13.7	13.7
135°	28.0	28.0	25.5	21.6	18.2	14.5	11.0	9.8	10.6	11.5	11.5
137.5°	22.9	22.5	20.4	17.0	13.7	10.6	8.1	7.6	9.0	9.8	9.8
140°	18.2	17.8	16.1	13.1	9.8	7.2	5.5	6.0	7.2	7.6	8.1
142.5°	13.7	13.7	11.9	9.8	6.4	4.2	3.5	4.8	5.5	6.0	6.4
145°	9.8	9.8	8.5	6.4	3.9	2.2	2.2	3.5	4.2	4.8	4.8
147.5°	6.4	6.4	5.5	3.9	2.2	0.9	1.3	2.2	3.0	3.5	3.5
150°	3.9	3.5	3.0	1.6	0.9	0.0	0.4	0.9	1.6	2.2	1.6
152.5°	1.6	1.6	1.3	0.9	0.4	0.0	0.0	0.0	0.4	0.9	0.9
155°	0.4	0.4	0.4	0.4	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)