

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: P240200

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-30-D-U-T4W-FP-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2749 lumens  
Efficiency: N/A  
Efficacy: 88.7 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): 31  
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

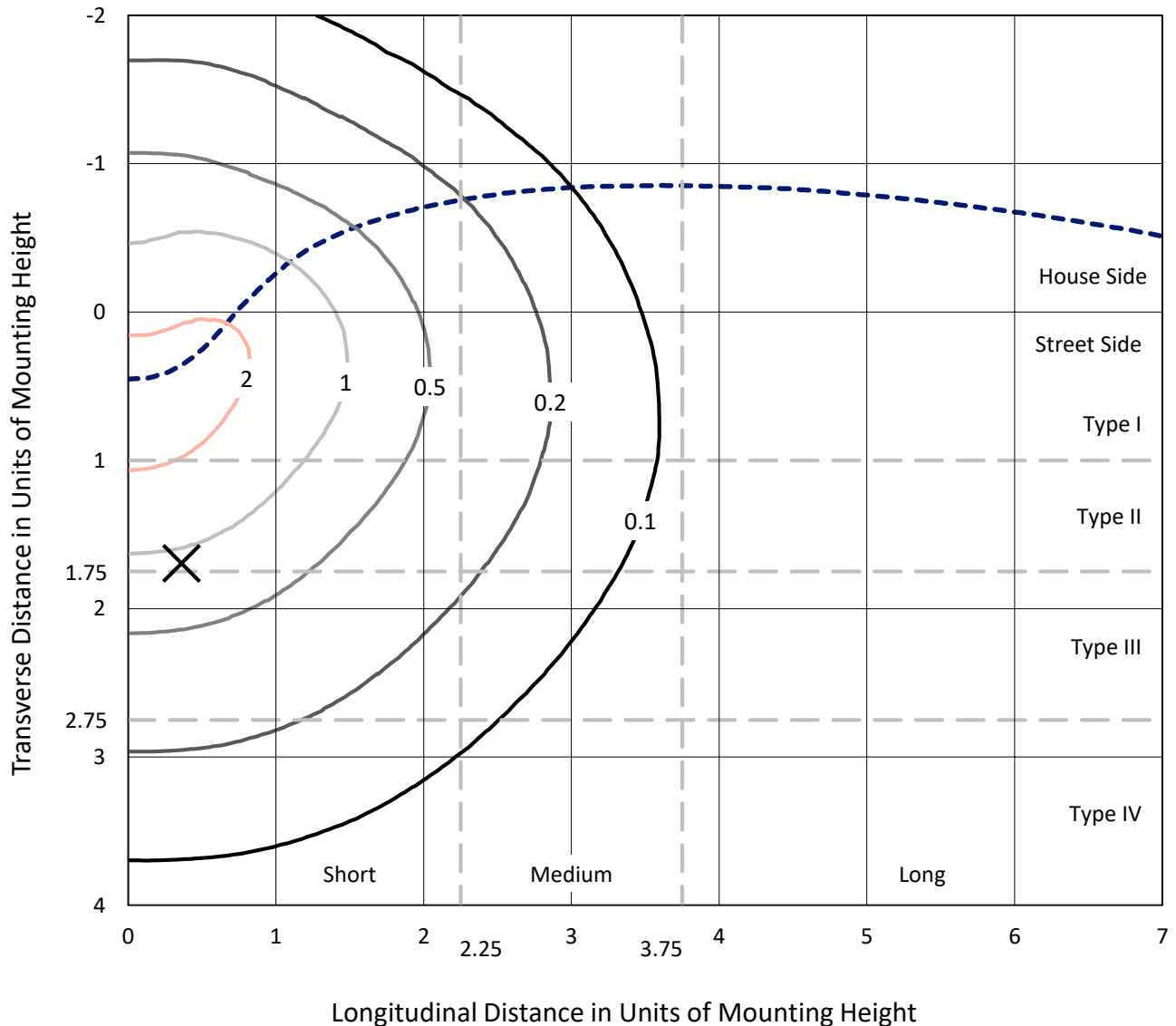


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

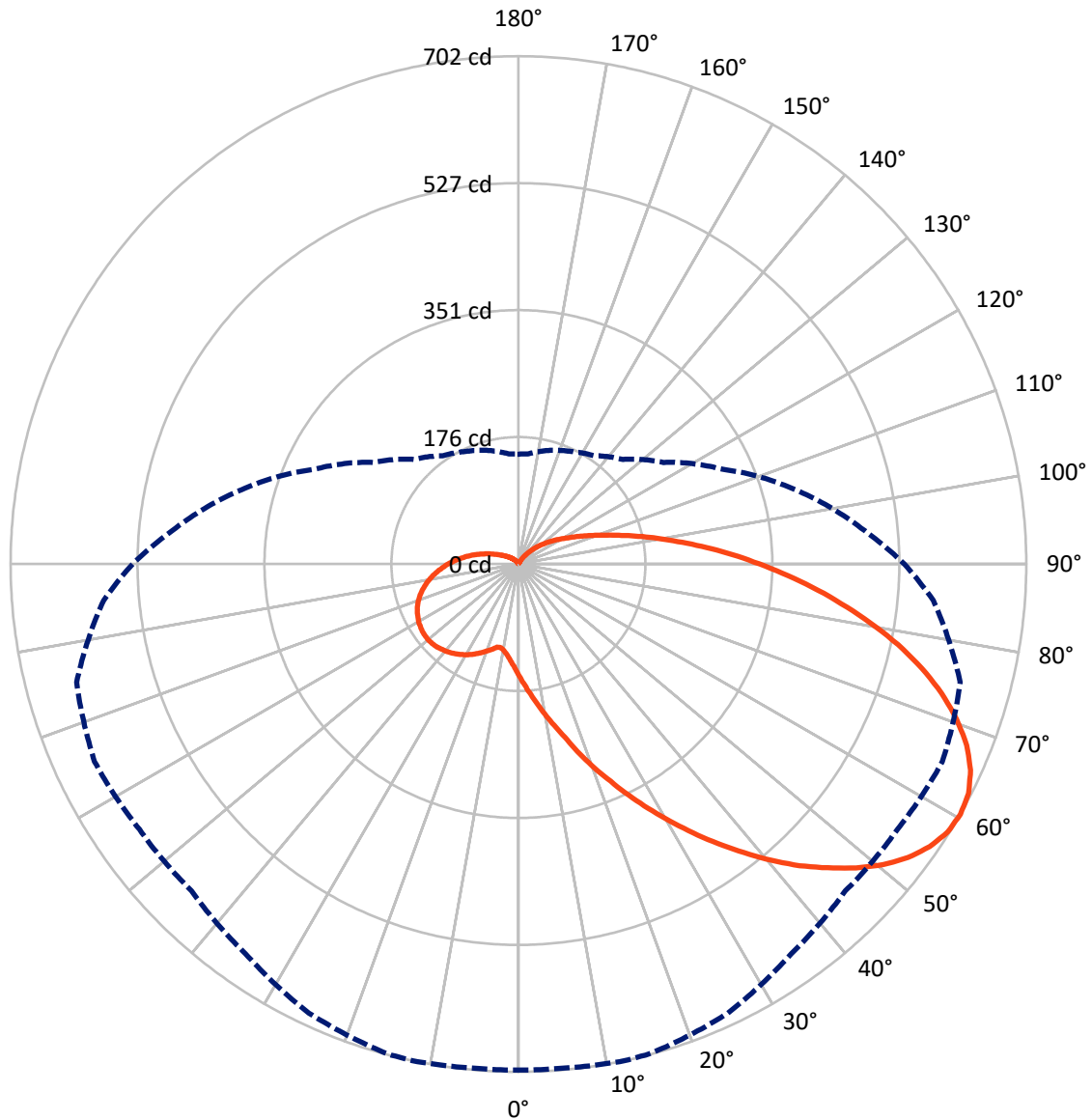


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 12-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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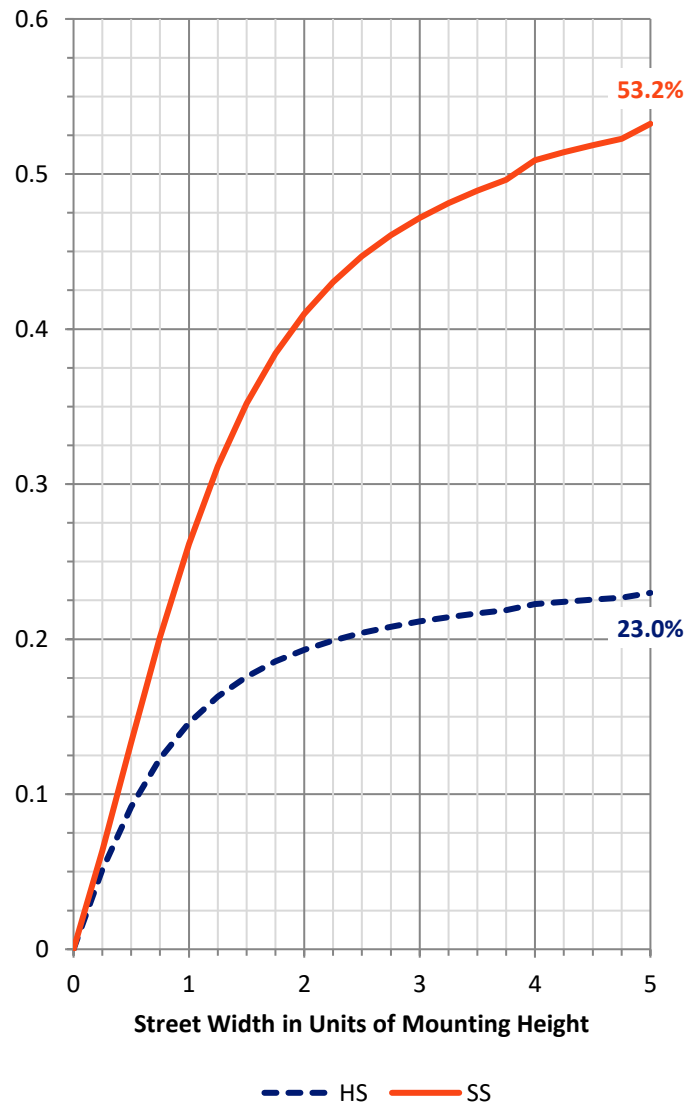
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	675.9	155.6	831.5
	% Fixture	24.6	5.7	30.2
<b>Street Side</b>	Lumens	1594.9	322.5	1917.5
	% Fixture	58.0	11.7	69.8
<b>Total</b>	Lumens	2270.8	478.2	2749.0
	% Fixture	82.6	17.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.4	0.6
10°-20°	53.9	2.0
20°-30°	115.6	4.2
30°-40°	202.4	7.4
40°-50°	304.8	11.1
50°-60°	398.0	14.5
60°-70°	443.2	16.1
70°-80°	413.7	15.1
80°-90°	323.7	11.8
90°-100°	218.7	8.0
100°-110°	132.2	4.8
110°-120°	72.8	2.6
120°-130°	36.2	1.3
130°-140°	14.5	0.5
140°-150°	3.5	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2270.8	82.6
0°-180°	2749.0	100.0



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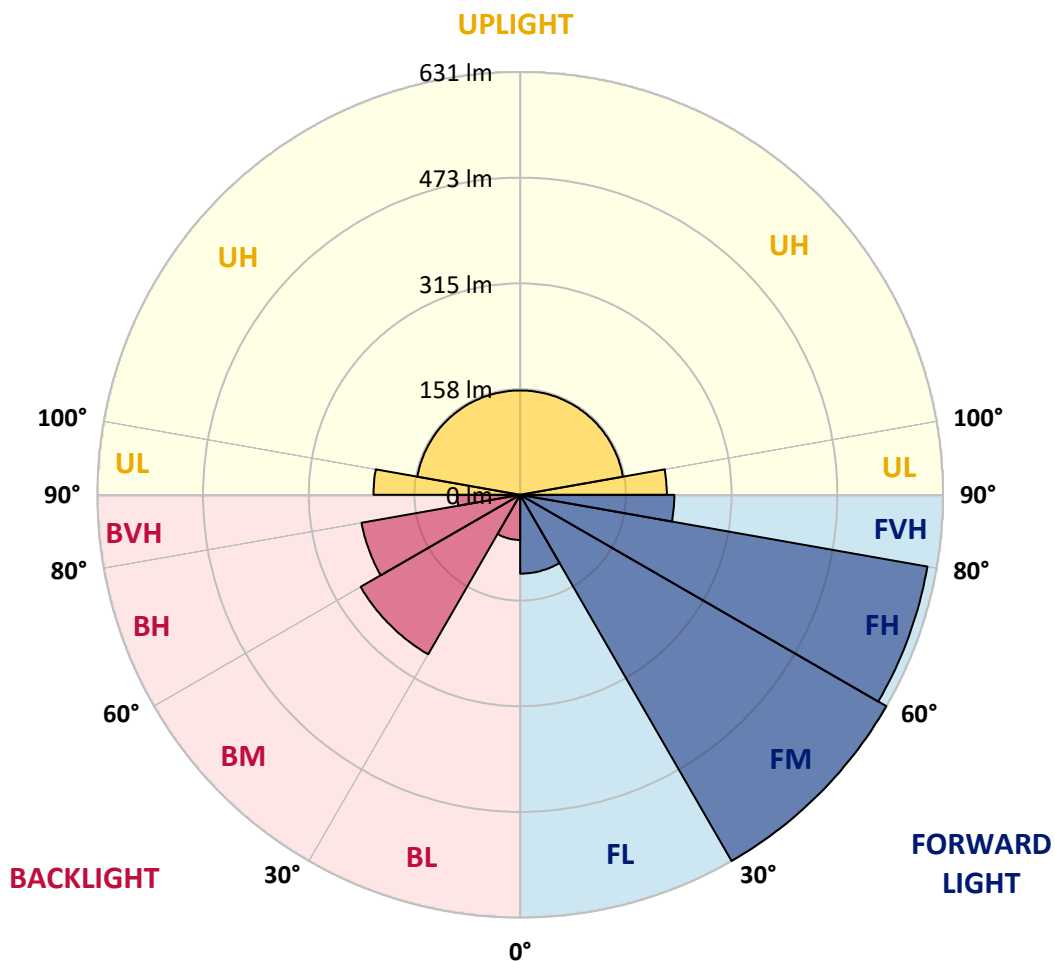
CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-FP-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	117.6	4.3			
FM	(30°-60°)	630.7	22.9			
FH	(60°-80°)	616.8	22.4			G0/660
FVH	(80°-90°)	229.9	8.4			G3/500
BL	(0°-30°)	67.4	2.5	B0/110		
BM	(30°-60°)	274.6	10.0	B1/1000		
BH	(60°-80°)	240.1	8.7	B1/500		G1/500
BVH	(80°-90°)	93.8	3.4			G1/100
UL	(90°-100°)	218.7	8.0		U3/500	
UH	(100°-180°)	155.6	5.7		U3/500	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9
2.5°	168.5	167.7	167.7	166.9	166.9	165.5	164.4	162.6	160.8	158.7	156.8
5°	181.9	181.9	181.2	181.2	179.7	177.2	174.6	171.3	168.0	164.4	160.1
7.5°	197.9	197.5	197.5	196.4	194.6	190.9	187.4	182.7	177.5	171.3	165.5
10°	214.2	213.9	213.9	212.8	210.7	206.3	200.8	195.3	188.8	180.9	172.8
12.5°	234.0	232.5	231.7	231.4	227.7	223.8	216.9	210.4	201.6	192.4	182.7
15°	254.7	254.2	252.2	251.1	247.4	241.3	234.7	226.6	218.0	207.7	195.7
17.5°	277.9	277.9	276.5	275.0	271.1	262.7	254.2	246.7	237.9	225.5	212.1
20°	303.0	303.0	301.2	299.1	293.9	286.7	278.3	269.3	258.6	245.2	228.8
22.5°	329.6	328.9	326.3	324.8	318.7	310.8	304.2	293.6	281.3	265.9	247.0
25°	357.6	356.5	354.0	352.6	345.3	339.0	331.4	319.0	304.9	287.4	266.3
27.5°	387.1	384.1	382.4	380.2	373.2	367.1	356.5	344.9	328.6	310.3	287.1
30°	415.5	414.4	412.2	409.2	403.0	395.8	384.1	371.5	355.4	335.4	309.6
32.5°	447.9	446.8	443.1	440.2	432.2	424.6	412.6	399.2	382.0	360.9	332.9
35°	480.2	478.8	474.7	471.5	464.9	453.7	439.4	426.7	409.6	388.2	358.0
37.5°	513.7	510.8	506.4	504.2	496.2	482.4	467.5	453.7	438.0	416.2	383.5
40°	545.3	543.9	538.7	536.3	527.5	510.5	494.1	481.8	467.5	444.5	410.0
42.5°	577.8	575.1	570.2	567.5	557.3	537.7	520.6	508.9	496.9	474.4	436.9
45°	606.5	605.4	599.2	597.7	585.4	564.3	544.6	534.4	523.9	502.4	461.6
47.5°	634.5	631.9	627.9	626.0	611.6	587.6	568.2	559.5	550.7	531.1	488.3
50°	657.4	657.0	653.4	651.1	634.5	608.2	588.7	581.7	577.0	558.1	512.2
52.5°	677.1	676.7	674.4	672.3	654.5	627.1	606.8	601.7	600.3	582.8	533.3
55°	690.8	690.5	689.8	687.6	670.1	642.1	622.1	618.1	619.9	603.5	552.3
57.5°	698.8	698.5	699.6	697.7	679.9	652.3	632.6	631.5	635.9	621.0	566.4
60°	699.6	699.6	702.1	701.0	685.0	657.7	639.1	639.6	646.5	632.3	575.6
62.5°	693.0	693.0	698.5	697.4	683.6	657.4	640.3	643.2	651.9	638.5	578.8
65°	678.8	680.6	686.9	686.9	676.0	652.3	636.7	641.1	651.6	638.1	576.7
67.5°	656.3	659.9	668.6	669.4	661.8	641.1	627.1	633.3	645.0	630.9	567.5
70°	628.2	633.3	642.5	645.0	641.8	624.6	613.1	620.3	631.5	617.5	552.7
72.5°	595.6	600.3	612.0	614.8	615.9	602.4	593.4	602.1	611.2	595.9	531.9
75°	559.2	563.1	576.3	579.2	583.9	576.3	570.5	577.3	587.6	568.5	505.4
77.5°	515.1	522.0	536.6	539.8	549.0	545.3	541.0	549.3	557.0	537.0	474.4
80°	472.5	481.3	493.3	499.9	510.8	510.5	511.2	516.6	523.2	501.3	441.0
82.5°	429.3	435.5	449.7	455.8	472.5	476.6	476.6	483.9	486.1	461.6	405.0
85°	385.6	392.9	407.1	413.3	431.5	440.2	442.7	446.5	446.8	421.3	367.7
87.5°	347.1	351.5	364.9	372.6	392.1	402.4	405.7	410.0	407.1	382.0	329.6
90°	308.5	312.5	325.6	331.8	353.2	365.3	372.6	374.3	368.5	342.0	294.7
92.5°	272.5	276.5	288.9	296.1	317.3	330.0	336.8	338.3	331.8	304.9	260.8
95°	240.8	240.8	254.2	259.7	283.4	297.6	304.2	304.2	295.0	268.4	228.5
97.5°	211.0	211.8	222.3	229.2	251.1	265.9	272.8	273.2	260.5	235.4	201.1
100°	184.1	185.2	195.0	201.1	222.3	237.9	244.0	243.0	229.9	204.1	173.9
102.5°	161.9	161.9	170.2	175.4	195.3	211.0	216.9	214.7	201.1	176.5	151.8
105°	141.9	142.6	148.0	153.2	172.1	186.7	192.4	189.1	175.4	151.4	132.4
107.5°	125.8	125.5	129.2	132.8	150.7	164.4	169.6	165.5	151.0	129.5	114.9
110°	110.0	110.3	113.2	115.7	132.1	145.2	148.8	145.6	129.2	110.3	99.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	97.1	97.1	99.3	101.5	113.2	125.8	130.2	125.5	110.0	93.5	87.0
115°	86.2	86.6	87.3	88.4	98.3	110.0	113.5	107.7	92.5	80.1	75.7
117.5°	76.8	76.8	77.1	78.2	84.4	94.9	97.5	91.3	78.2	68.4	66.5
120°	68.8	68.4	68.1	68.4	72.7	80.5	82.9	76.8	65.1	59.3	57.8
122.5°	61.0	61.0	60.4	60.7	61.8	67.6	69.5	63.7	54.9	51.3	51.0
125°	53.9	53.9	53.1	52.8	52.3	55.2	56.0	51.7	45.5	44.4	44.0
127.5°	47.0	47.3	46.2	45.9	44.4	44.8	45.2	41.1	37.4	37.8	38.2
130°	41.1	41.1	40.0	39.4	37.1	35.3	34.5	32.0	30.6	32.0	33.1
132.5°	35.6	35.0	34.2	33.5	30.1	27.7	26.2	24.0	24.7	26.9	28.0
135°	29.8	29.5	28.4	28.0	24.7	20.8	18.1	17.5	19.6	22.2	23.0
137.5°	24.4	24.4	23.3	22.5	18.9	15.0	12.3	12.3	15.0	17.5	18.9
140°	19.2	19.2	18.1	17.5	14.2	10.2	7.6	7.9	10.9	13.4	14.5
142.5°	14.5	14.5	13.4	13.1	10.2	6.5	4.4	5.1	7.6	9.9	10.9
145°	10.6	10.2	9.5	9.1	6.5	4.1	2.1	2.9	4.7	6.5	7.6
147.5°	6.9	6.9	6.2	5.8	4.1	2.1	0.8	1.4	2.9	4.1	5.1
150°	4.1	4.1	3.6	3.3	2.1	0.8	0.0	0.8	1.4	2.1	2.9
152.5°	2.1	2.1	1.8	1.8	0.8	0.3	0.0	0.0	0.3	1.1	1.1
155°	0.8	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9
2.5°	155.7	154.6	152.4	150.7	148.8	146.6	145.6	144.4	143.6	143.0	143.0
5°	157.9	155.7	151.8	147.7	144.1	140.8	137.8	135.7	134.6	133.9	133.6
7.5°	162.6	159.3	152.8	146.6	141.2	136.0	132.1	128.8	127.0	125.8	125.5
10°	168.8	164.1	155.7	147.4	140.1	133.6	128.1	124.0	121.5	120.4	119.6
12.5°	177.2	171.3	160.4	149.9	140.4	132.4	125.5	121.2	118.5	117.1	117.1
15°	189.9	182.3	168.8	154.6	143.0	133.2	125.5	120.7	119.0	118.2	117.9
17.5°	204.5	195.7	179.4	163.1	148.0	135.7	128.8	125.8	123.4	122.3	122.3
20°	220.4	209.9	190.9	172.4	155.7	143.0	135.4	130.6	127.8	126.6	126.2
22.5°	236.4	225.5	203.3	182.3	163.7	152.4	141.5	135.7	132.1	130.6	130.2
25°	254.7	242.7	216.5	192.9	175.1	162.2	149.5	141.2	136.5	134.6	134.3
27.5°	274.3	260.1	231.0	204.1	186.0	171.0	156.8	145.6	140.8	138.6	138.2
30°	294.7	279.0	245.7	215.8	196.4	178.6	163.7	151.0	144.8	142.2	141.9
32.5°	316.2	297.6	261.2	229.6	206.3	185.5	169.6	156.0	148.5	145.6	145.6
35°	340.2	318.7	276.5	242.3	215.3	192.4	174.6	160.8	151.8	148.8	148.8
37.5°	363.1	339.8	292.9	256.1	223.8	197.9	178.6	165.2	154.9	151.4	151.4
40°	387.5	360.9	308.5	267.3	231.0	202.2	182.3	168.5	157.6	154.3	153.5
42.5°	411.2	382.0	325.3	279.0	237.2	206.0	185.2	171.3	159.7	155.7	155.3
45°	435.8	403.0	341.2	288.5	242.3	208.4	186.7	173.1	162.2	157.2	156.5
47.5°	457.2	423.1	356.8	296.8	246.3	209.9	187.7	174.6	163.7	157.9	157.2
50°	478.8	441.0	370.0	303.7	248.4	210.7	188.0	175.1	164.8	157.9	157.2
52.5°	498.0	457.7	381.4	308.5	249.5	210.4	187.7	175.1	165.2	157.2	156.5
55°	514.1	471.1	389.3	311.4	249.5	209.2	186.7	174.3	164.8	156.5	155.3
57.5°	526.1	480.2	394.8	312.2	247.8	207.0	184.8	173.1	163.7	154.9	153.5
60°	533.3	485.3	396.5	310.3	244.8	204.5	182.7	171.7	162.6	152.8	151.8
62.5°	535.5	486.1	394.8	306.7	240.8	200.8	179.4	169.2	160.4	150.2	149.1
65°	531.9	482.1	389.6	300.9	235.4	196.4	176.1	166.3	157.9	147.4	146.3
67.5°	522.0	473.3	380.6	292.9	229.2	191.3	172.4	163.1	154.9	144.1	141.9
70°	507.5	460.2	368.9	283.1	221.9	186.0	168.0	159.0	151.0	140.4	138.2
72.5°	486.4	442.4	353.7	271.1	213.6	180.1	162.6	154.3	146.6	136.0	133.2
75°	461.0	419.4	335.4	258.6	204.9	173.1	157.2	149.1	141.5	131.0	128.4
77.5°	432.5	395.4	315.8	244.5	194.6	166.3	151.4	143.6	135.7	125.5	121.9
80°	401.6	367.4	294.4	229.9	185.2	158.7	144.8	137.5	129.5	119.6	115.7
82.5°	368.2	338.3	272.8	215.3	174.6	151.0	138.2	131.0	122.6	113.2	109.2
85°	335.4	308.5	250.3	199.7	164.4	143.0	131.0	123.7	116.1	106.2	102.6
87.5°	301.5	278.3	228.2	184.4	154.3	135.4	124.0	116.5	108.3	99.3	96.3
90°	272.2	249.9	207.4	169.9	143.6	127.0	116.8	108.8	101.2	92.5	89.8
92.5°	240.8	222.7	187.0	156.0	133.9	119.0	109.5	101.8	93.5	85.1	83.4
95°	213.9	199.0	168.5	142.2	123.4	111.3	102.2	94.2	85.9	77.9	76.8
97.5°	188.0	175.7	150.2	129.5	114.2	103.4	94.6	87.0	78.2	70.9	70.3
100°	165.2	154.3	133.9	117.9	104.5	95.7	87.6	79.6	70.9	64.0	64.0
102.5°	144.1	135.7	119.3	105.9	95.7	87.3	80.1	72.0	63.3	57.5	57.8
105°	127.0	119.0	105.6	95.3	87.0	79.3	72.4	64.4	56.0	51.3	51.7
107.5°	110.6	104.5	93.5	84.7	78.2	72.0	64.8	57.2	48.7	45.9	46.2
110°	96.3	91.7	82.9	75.7	70.6	64.8	58.2	50.3	42.6	40.8	40.8



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CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-FP-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	84.0	80.1	73.5	67.6	62.6	57.8	51.0	43.7	36.4	35.6	35.6
115°	73.5	70.6	64.4	59.6	56.0	51.3	45.2	37.4	31.6	31.2	31.6
117.5°	64.4	61.8	56.7	52.8	49.5	45.2	39.4	32.0	26.9	27.4	27.7
120°	56.4	54.5	50.3	47.0	43.7	39.7	33.5	26.9	23.6	24.0	24.0
122.5°	49.8	48.1	44.4	41.1	38.2	34.2	28.7	22.5	20.3	21.1	21.1
125°	43.2	42.2	38.6	35.6	32.8	28.7	23.6	18.6	17.5	18.1	18.1
127.5°	37.4	36.7	33.9	30.6	27.7	24.0	19.2	15.3	15.0	15.7	15.7
130°	32.3	31.6	29.1	26.2	23.0	19.6	15.0	12.3	12.8	13.4	13.8
132.5°	27.7	27.4	24.7	21.5	18.6	15.3	11.7	10.2	10.9	11.7	11.7
135°	23.0	22.5	20.8	17.8	14.5	11.7	8.7	7.9	9.1	9.9	9.9
137.5°	18.9	18.1	16.7	13.8	10.9	8.4	6.2	6.5	7.3	7.9	7.9
140°	15.0	14.5	13.1	10.6	7.6	5.5	4.4	5.1	6.2	6.5	6.5
142.5°	10.9	10.9	9.5	7.3	4.7	3.3	2.9	3.6	4.7	5.1	5.1
145°	7.6	7.6	6.5	4.7	2.9	1.4	1.4	2.5	3.3	3.6	4.1
147.5°	5.1	4.7	4.1	2.9	1.4	0.3	0.8	1.8	2.1	2.5	2.5
150°	2.9	2.9	2.1	1.4	0.8	0.0	0.3	0.8	1.1	1.4	1.8
152.5°	1.1	1.1	0.8	0.3	0.3	0.0	0.0	0.0	0.3	0.8	0.8
155°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.0	0.3	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)