

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: P240307

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-FP-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-20-D-U-T2U-FP-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2001.6 lumens  
Efficiency: N/A  
Efficacy: 95.3 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 - G2

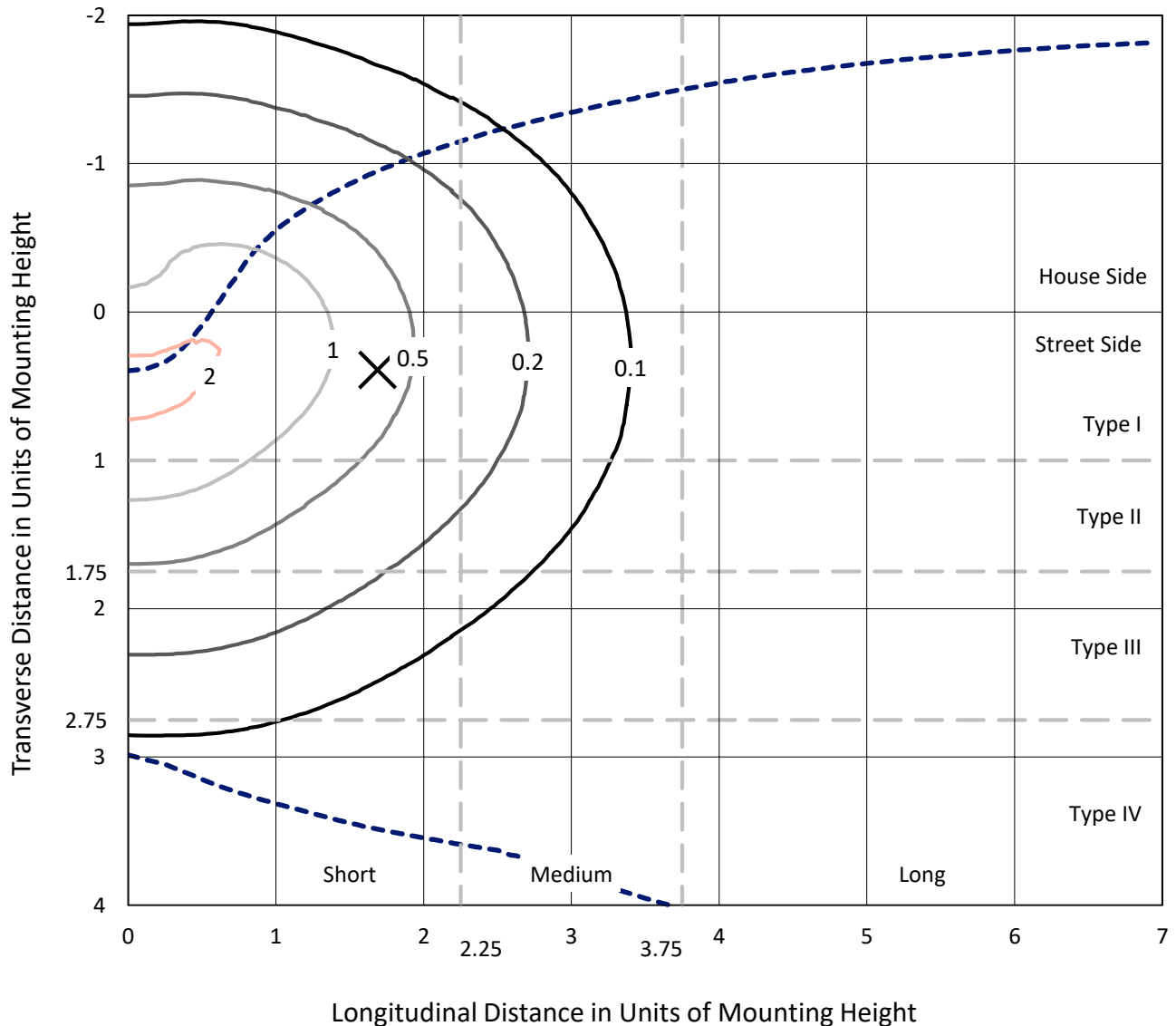
Input Watts (W): 21  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

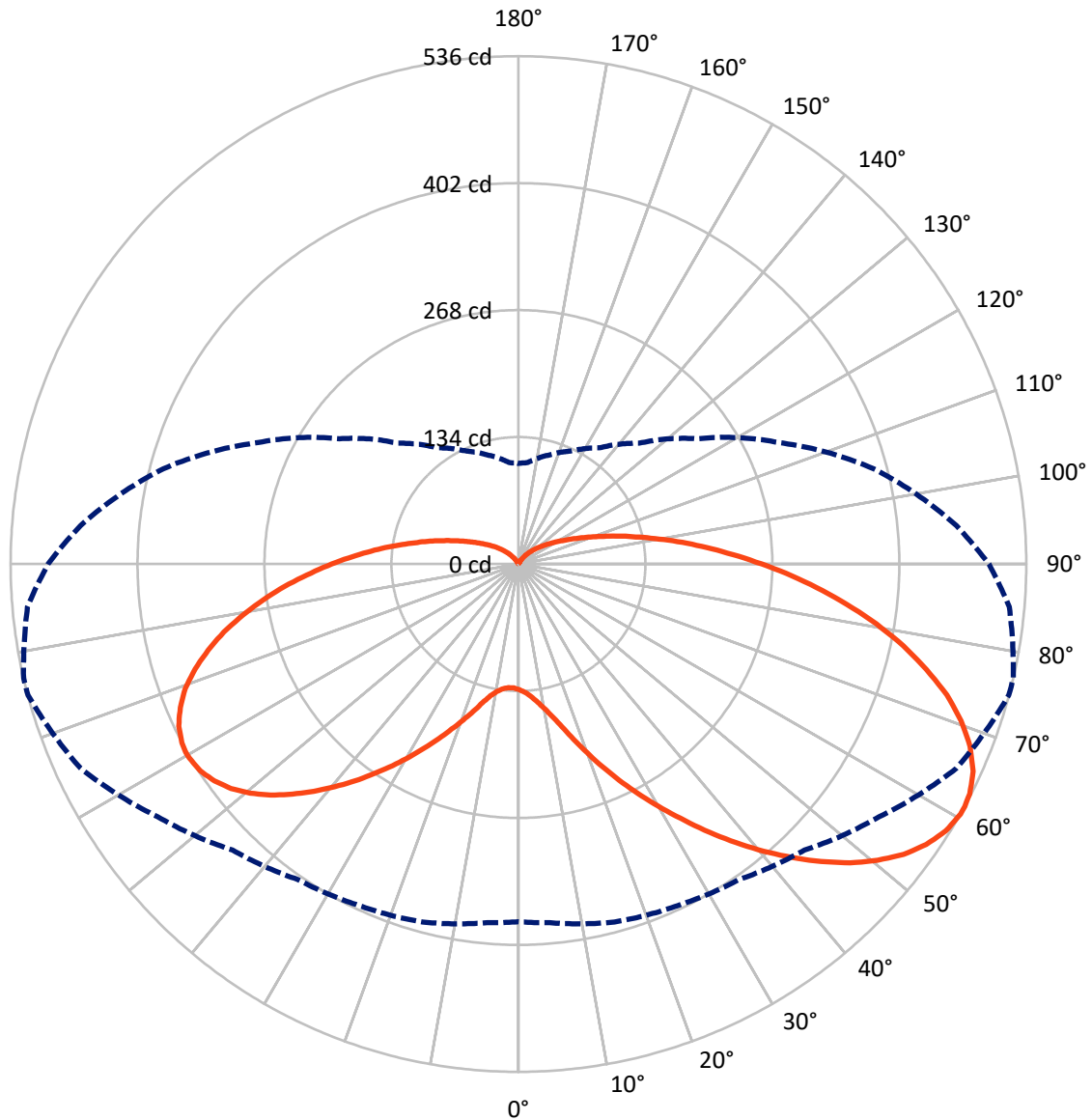
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical



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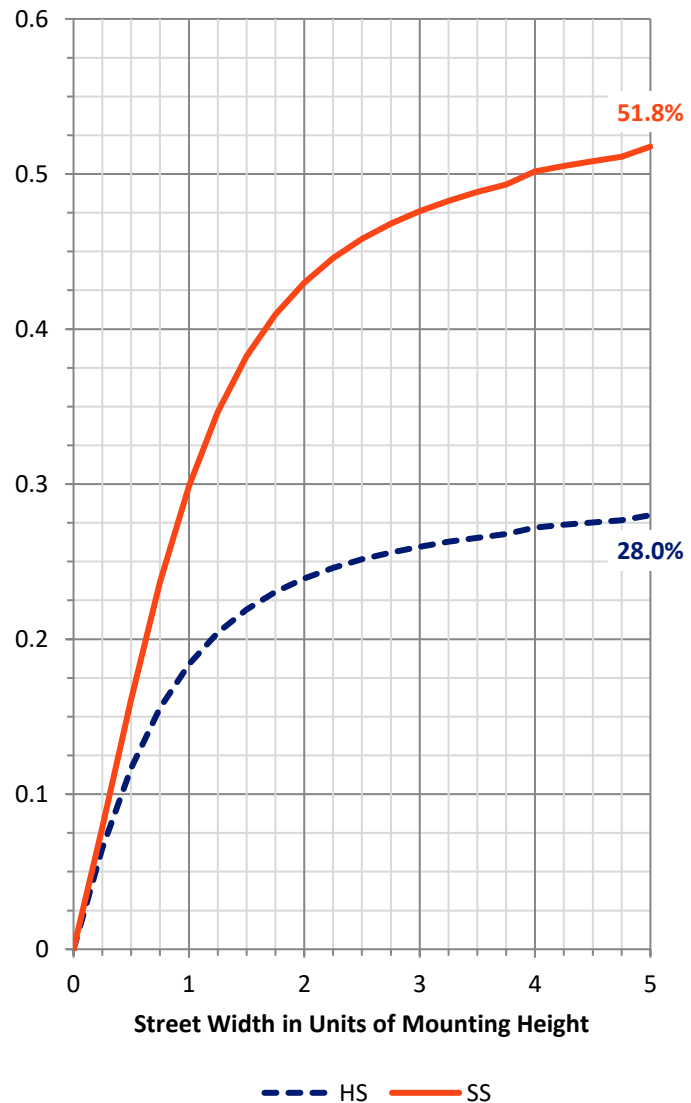
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	595.2	127.8	723.1
	% Fixture	29.7	6.4	36.1
<b>Street Side</b>	Lumens	1098.1	180.4	1278.5
	% Fixture	54.9	9.0	63.9
<b>Total</b>	Lumens	1693.3	308.2	2001.6
	% Fixture	84.6	15.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.2	0.7
10°-20°	46.6	2.3
20°-30°	99.9	5.0
30°-40°	172.2	8.6
40°-50°	250.0	12.5
50°-60°	307.6	15.4
60°-70°	318.8	15.9
70°-80°	277.9	13.9
80°-90°	207.2	10.3
90°-100°	136.9	6.8
100°-110°	83.6	4.2
110°-120°	47.9	2.4
120°-130°	25.3	1.3
130°-140°	11.2	0.6
140°-150°	3.1	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1693.3	84.6
0°-180°	2001.6	100.0



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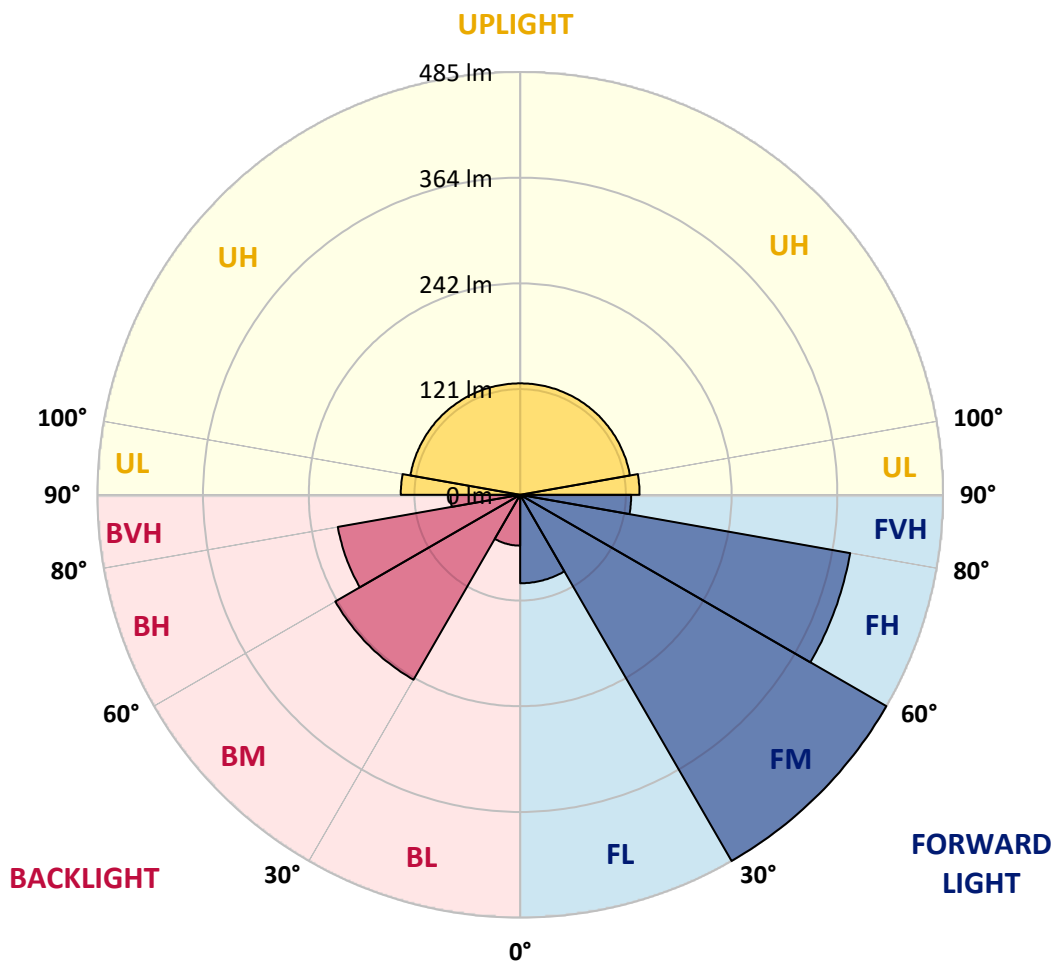
CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-FP-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.4	5.1			
FM (30°-60°)	485.0	24.2			
FH (60°-80°)	384.4	19.2			G0/660
FVH (80°-90°)	127.3	6.4			G2/225
BL (0°-30°)	58.3	2.9	B0/110		
BM (30°-60°)	244.8	12.2	B1/1000		
BH (60°-80°)	212.3	10.6	B1/500		G1/500
BVH (80°-90°)	79.8	4.0			G1/100
UL (90°-100°)	136.9	6.8		U3/500	
UH (100°-180°)	127.8	6.4		U3/500	

**BUG Rating: B1-U3-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
2.5°	144.3	144.3	143.7	143.5	142.5	141.2	139.9	138.1	136.2	135.7	134.7
5°	156.8	156.8	156.2	154.9	153.2	150.8	147.9	145.1	141.4	140.6	137.7
7.5°	170.8	170.3	169.1	167.7	165.1	161.7	157.8	153.4	148.5	147.4	143.2
10°	184.8	184.8	183.5	181.5	178.3	173.9	169.3	163.8	157.4	156.0	150.6
12.5°	200.9	200.5	198.5	196.7	193.2	188.3	183.0	176.2	168.5	167.1	160.2
15°	218.1	217.9	216.0	212.7	208.4	203.9	198.5	191.1	182.8	180.8	172.8
17.5°	237.4	235.8	234.8	231.1	226.7	220.7	216.6	209.0	200.0	197.5	187.9
20°	255.0	255.3	252.9	249.8	245.8	241.6	235.6	228.8	218.9	215.8	204.9
22.5°	275.2	275.2	272.7	269.7	265.5	263.5	256.6	249.5	237.6	235.4	223.1
25°	295.9	295.1	292.7	289.9	287.8	285.1	278.9	270.6	258.4	256.1	242.3
27.5°	315.1	315.3	312.5	310.2	309.9	306.6	301.3	292.5	280.8	277.4	262.6
30°	334.9	335.1	333.0	330.2	330.4	328.4	324.0	314.8	303.6	299.8	284.0
32.5°	354.6	354.1	351.3	350.9	350.1	348.6	345.3	339.6	327.3	323.2	306.8
35°	372.3	372.3	369.4	370.5	369.0	368.6	367.6	363.2	352.3	348.1	330.4
37.5°	388.6	388.4	386.9	387.1	386.1	385.8	387.7	387.1	377.0	373.5	355.4
40°	403.7	402.2	400.9	402.0	400.9	402.5	406.9	410.0	401.4	398.8	380.3
42.5°	414.2	413.6	413.1	414.9	413.4	417.1	424.0	431.6	426.4	423.8	405.4
45°	422.5	421.4	422.5	424.3	423.3	428.0	440.5	451.9	451.9	448.2	429.3
47.5°	425.9	425.6	428.2	429.7	429.3	436.8	453.4	470.8	474.5	471.7	452.4
50°	425.1	425.1	429.3	431.6	432.1	442.0	463.0	485.8	494.3	491.8	472.9
52.5°	420.1	420.1	426.4	429.3	431.3	443.8	469.6	498.7	510.9	509.5	490.6
55°	410.9	410.5	418.6	422.2	426.6	442.0	472.1	507.0	523.9	522.8	505.7
57.5°	396.2	396.7	406.7	412.4	418.0	436.3	470.8	511.2	532.7	532.2	515.2
60°	377.8	380.3	391.5	398.0	406.7	427.2	465.3	510.4	536.1	536.4	520.5
61°	370.0	372.6	384.0	391.8	400.9	422.8	462.2	508.8	535.8	536.4	521.0
62.5°	357.5	359.0	372.6	382.0	391.8	414.6	456.0	504.7	534.1	534.9	520.3
65°	334.2	336.9	350.7	362.4	374.1	399.2	442.5	494.0	526.5	527.8	514.3
67.5°	308.3	311.7	327.6	341.1	354.6	381.1	425.9	478.7	513.0	514.5	502.8
70°	282.9	287.1	303.6	317.2	333.8	361.1	405.6	458.9	494.5	496.0	485.8
72.5°	256.9	261.5	278.7	294.4	311.2	339.0	383.0	435.5	471.4	473.4	464.2
75°	230.9	236.9	252.9	271.0	287.8	316.5	359.6	410.5	443.0	445.1	437.8
77.5°	207.5	212.7	228.6	247.3	265.7	293.1	334.2	380.9	414.6	415.7	409.1
80°	183.8	189.2	206.4	224.1	243.6	269.9	307.8	350.9	380.3	383.3	376.5
82.5°	162.8	168.3	184.3	203.5	222.4	247.5	281.1	320.3	346.4	349.4	344.7
85°	145.1	149.0	164.9	183.3	201.5	225.4	257.7	291.7	315.1	315.6	311.0
87.5°	127.4	131.5	146.6	164.6	183.0	204.9	232.4	261.7	280.8	282.7	277.9
90°	112.9	115.5	129.7	147.4	165.3	185.4	209.3	235.4	250.6	250.6	247.0
92.5°	100.1	101.4	115.7	132.6	149.8	166.9	187.9	208.0	221.2	221.0	216.9
95°	88.4	89.9	101.9	118.3	134.9	150.8	167.9	183.8	193.7	194.3	189.2
97.5°	78.0	79.0	90.2	106.3	121.2	136.0	150.2	163.1	169.5	169.8	166.2
100°	69.7	69.7	80.3	94.6	108.9	122.2	134.4	144.0	146.9	146.6	143.5
102.5°	62.4	61.8	71.0	84.7	98.0	109.5	119.3	125.5	128.0	127.2	125.1
105°	55.4	55.9	63.0	75.9	87.9	98.0	105.6	110.8	110.8	110.3	108.1
107.5°	50.1	49.9	55.4	67.3	78.7	87.6	93.6	96.1	95.4	94.6	93.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	45.1	45.1	49.1	60.3	70.2	78.2	82.4	84.0	81.6	81.4	81.1
112.5°	40.5	40.5	43.9	53.3	62.6	69.4	72.7	73.1	70.5	70.2	70.5
115°	37.1	37.1	39.0	47.3	55.9	61.8	64.8	63.5	60.8	60.5	61.4
117.5°	33.8	33.8	35.4	41.3	49.3	54.8	56.7	54.8	52.6	52.6	53.5
120°	30.9	30.9	31.4	36.2	43.3	48.1	49.3	47.3	45.5	45.5	46.6
122.5°	28.3	28.1	28.3	31.4	37.4	41.8	42.4	40.5	39.3	39.6	41.1
125°	25.7	25.7	25.4	27.4	32.2	35.8	36.4	34.3	34.3	34.3	35.6
127.5°	23.4	23.4	22.8	23.7	27.4	30.4	30.4	28.9	29.4	29.9	30.9
130°	21.3	21.3	20.8	20.8	22.6	25.2	25.2	24.1	25.4	25.7	26.8
132.5°	19.2	19.0	18.5	17.7	18.5	20.0	20.0	19.7	21.9	22.1	22.8
135°	17.2	16.9	16.4	15.1	14.9	15.3	15.3	16.2	18.2	18.5	19.4
137.5°	14.9	14.9	13.9	12.8	11.2	11.2	11.2	12.8	14.9	15.3	15.9
140°	12.8	12.8	11.9	10.4	8.3	7.5	7.7	9.9	11.9	12.2	12.8
142.5°	10.4	10.4	9.7	8.0	6.0	4.4	4.9	7.0	8.8	9.4	9.9
145°	8.0	8.0	7.3	5.7	3.6	2.3	2.8	4.9	6.2	6.4	7.0
147.5°	6.0	6.0	5.3	4.0	2.0	0.8	1.5	2.8	4.2	4.4	4.9
150°	4.0	4.0	3.4	2.0	1.1	0.0	0.5	1.5	2.3	2.6	2.8
152.5°	2.0	2.0	1.5	1.1	0.2	0.0	0.0	0.5	1.1	1.1	1.3
155°	1.1	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.5
157.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	0.2	0.2	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°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
2.5°	133.7	132.6	130.6	128.9	127.2	125.5	124.2	123.3	123.0	122.2	122.5
5°	136.0	134.2	130.2	126.8	123.3	120.0	117.6	115.7	114.4	113.8	113.3
7.5°	140.4	137.2	131.5	126.0	121.0	116.3	112.1	109.5	107.4	106.3	106.3
10°	146.6	142.7	134.7	127.4	120.0	113.8	108.7	104.6	101.9	100.6	100.8
12.5°	155.2	150.0	140.2	130.2	121.4	113.3	106.3	101.9	98.8	97.2	97.2
15°	167.3	161.7	148.5	135.7	123.8	113.8	106.3	101.4	99.1	98.0	97.8
17.5°	182.3	174.7	159.6	144.3	129.3	117.0	109.5	104.8	101.4	100.1	99.9
20°	197.3	188.8	171.1	153.9	137.0	123.8	114.6	108.3	104.1	102.1	101.9
22.5°	214.4	204.7	183.8	163.6	145.4	132.6	119.8	111.8	106.6	104.3	104.1
25°	232.1	221.2	197.9	175.0	156.6	141.2	126.3	115.2	108.9	106.1	105.8
27.5°	250.9	239.2	212.4	186.4	167.1	149.2	132.3	118.3	111.0	107.9	107.6
30°	271.7	257.7	228.3	199.7	177.9	156.8	138.1	122.0	113.1	109.5	108.9
32.5°	293.3	277.6	244.4	213.7	187.7	163.6	142.7	125.8	115.2	111.0	110.8
35°	315.9	298.5	261.0	227.5	196.5	169.5	146.9	129.3	116.7	112.3	111.8
37.5°	339.6	320.3	278.5	240.5	205.1	174.7	150.2	132.1	118.3	113.1	112.5
40°	363.2	341.1	295.6	253.7	212.9	179.1	153.2	134.2	119.3	113.8	113.3
42.5°	386.1	363.5	313.0	265.9	219.7	182.5	155.2	136.0	120.4	114.4	113.6
45°	408.4	384.8	329.6	276.3	225.4	185.0	156.6	137.0	121.8	114.4	113.6
47.5°	430.8	404.8	346.1	285.5	229.6	187.0	157.0	137.5	122.5	114.1	113.3
50°	451.1	422.8	360.1	293.6	232.7	187.5	156.8	137.2	122.7	113.6	112.5
52.5°	467.7	438.5	371.8	299.3	234.5	187.2	156.0	136.8	122.5	112.5	111.8
55°	482.1	450.8	380.3	302.8	234.5	185.8	154.7	135.7	121.4	111.2	110.3
57.5°	491.3	459.9	386.1	304.4	233.5	183.5	152.3	133.9	120.4	109.5	108.3
60°	496.8	464.4	388.4	303.4	230.6	180.4	149.8	131.7	118.8	107.4	106.3
61°	497.3	464.9	388.4	302.3	229.3	179.1	148.7	131.0	118.0	106.6	105.3
62.5°	496.8	464.4	387.1	300.0	226.7	176.8	146.6	129.3	116.5	104.8	104.1
65°	491.6	459.4	382.0	294.0	221.0	172.1	143.0	126.3	113.8	102.1	100.8
67.5°	480.4	449.5	372.6	285.7	214.2	166.6	138.9	123.0	111.0	99.1	97.5
70°	464.4	435.0	360.9	276.1	206.7	160.7	134.2	119.1	107.4	95.9	93.9
72.5°	444.3	417.3	344.5	263.9	197.9	154.4	129.3	114.9	103.5	92.4	89.7
75°	419.3	394.7	326.2	250.4	187.9	147.2	124.0	110.3	99.1	88.4	85.5
77.5°	391.8	369.8	306.6	235.6	178.1	140.2	118.3	105.0	94.4	84.0	81.1
80°	361.6	342.4	284.2	219.9	167.7	132.9	112.5	100.1	89.7	79.5	76.2
82.5°	330.7	313.6	261.7	204.1	156.6	125.3	106.3	94.6	84.4	74.9	71.2
85°	299.3	284.4	239.2	187.7	145.4	117.8	100.6	89.1	79.0	69.9	66.8
87.5°	268.0	255.3	216.0	172.1	135.2	110.5	94.6	83.7	73.9	65.0	61.8
90°	239.0	228.1	194.7	157.6	125.1	102.9	88.6	78.2	68.7	59.8	57.7
92.5°	211.4	202.0	174.2	142.2	114.9	95.7	82.7	72.5	63.0	54.8	53.5
95°	186.4	177.5	155.4	128.7	105.6	89.1	76.9	67.3	57.7	50.1	49.1
97.5°	161.9	156.6	138.1	115.7	96.4	82.2	71.2	62.2	52.8	45.8	45.3
100°	141.7	136.0	121.2	103.7	88.2	75.9	65.8	57.0	48.1	41.6	41.3
102.5°	123.3	119.3	106.8	93.6	80.1	69.2	60.3	52.0	43.3	37.7	37.7
105°	107.6	104.1	94.6	83.1	72.3	63.5	54.8	46.8	38.8	33.8	34.1
107.5°	92.9	90.4	82.7	73.5	65.0	57.5	49.7	41.8	34.1	30.1	30.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	80.9	78.5	72.5	65.8	58.5	52.0	44.7	37.1	29.6	27.4	27.4
112.5°	70.2	68.7	63.7	58.2	52.6	46.8	40.3	32.8	26.0	24.1	24.5
115°	61.4	60.1	55.9	51.8	47.1	42.1	35.8	28.6	22.6	21.9	21.9
117.5°	53.3	52.6	49.1	45.5	41.8	37.4	31.6	24.7	19.4	19.4	19.4
120°	46.6	45.8	43.1	40.0	36.9	33.0	27.4	21.1	17.2	17.2	17.4
122.5°	40.9	40.3	37.7	35.4	32.4	28.6	23.4	17.7	15.1	15.3	15.3
125°	35.6	35.1	33.4	30.7	28.1	24.5	19.7	14.5	13.0	13.5	13.5
127.5°	30.9	30.7	28.9	26.6	23.9	20.8	16.2	12.2	11.5	11.9	11.9
130°	27.0	26.8	24.9	22.6	20.3	16.9	13.0	10.2	9.9	10.4	10.4
132.5°	23.2	22.8	21.3	19.0	16.6	13.5	10.2	8.0	8.6	9.1	9.1
135°	19.4	19.2	18.2	15.7	13.5	10.7	7.7	6.8	7.3	7.7	7.7
137.5°	16.2	15.9	14.9	12.4	10.2	7.7	5.7	5.5	6.0	6.4	6.4
140°	13.0	12.8	11.7	9.7	7.3	5.5	4.0	4.4	4.9	5.5	5.5
142.5°	9.9	9.9	9.1	7.3	4.9	3.4	2.6	3.4	4.0	4.4	4.4
145°	7.3	7.3	6.2	4.9	2.8	1.8	1.5	2.3	3.2	3.4	3.4
147.5°	4.9	4.9	4.2	3.2	1.5	0.8	1.1	1.5	2.0	2.3	2.6
150°	2.8	2.8	2.3	1.5	0.8	0.2	0.2	1.1	1.3	1.5	1.5
152.5°	1.3	1.3	1.1	0.5	0.2	0.2	0.2	0.2	0.8	0.8	0.8
155°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2
157.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.2	0.2	0.2	0.2	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)