

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: P266551

Luminaire Tested: **UTLD-AF24-100-D-U-T3-CL-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-100-D-U-T3-CL-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7091.1 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U2 - G2

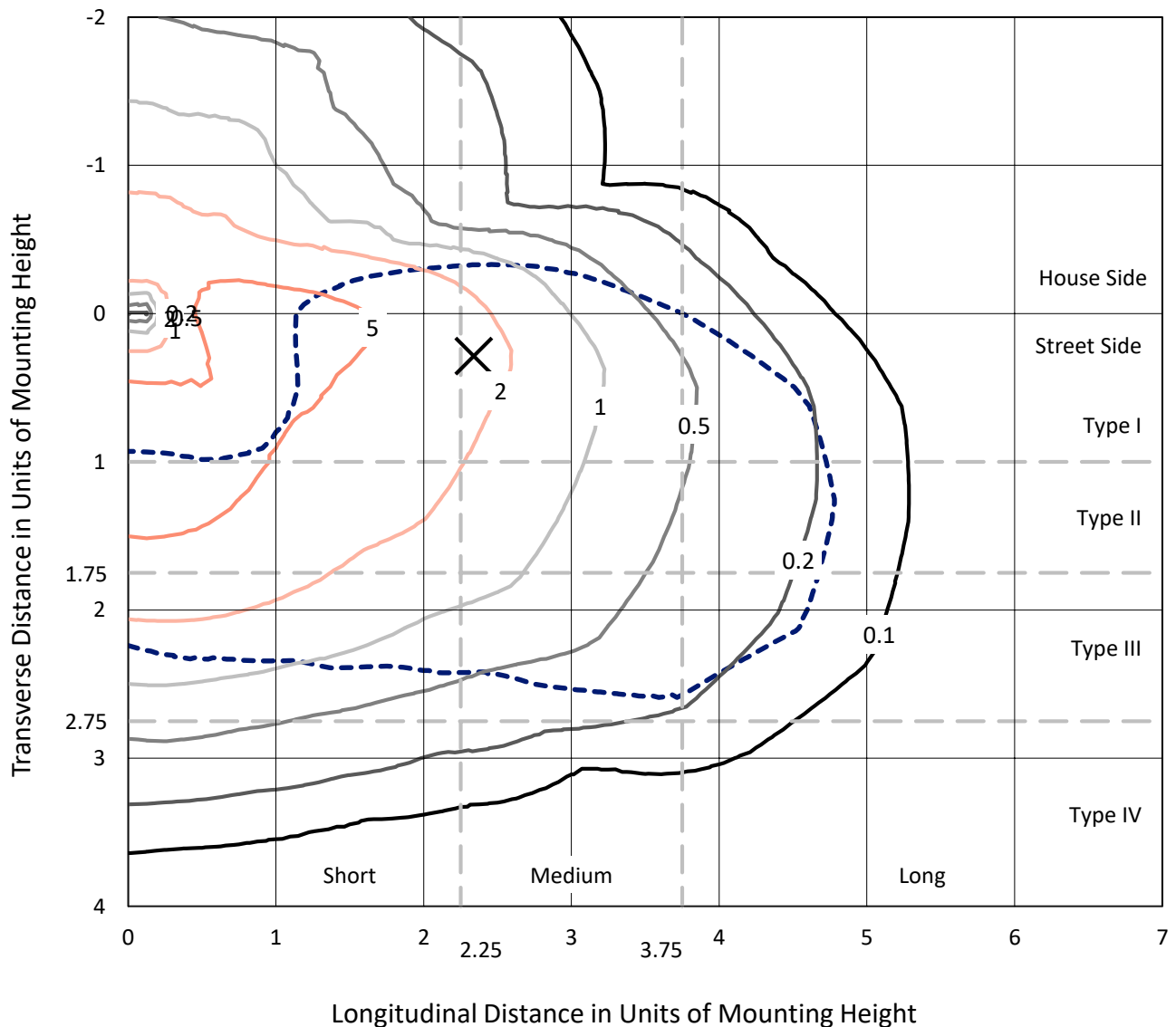
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

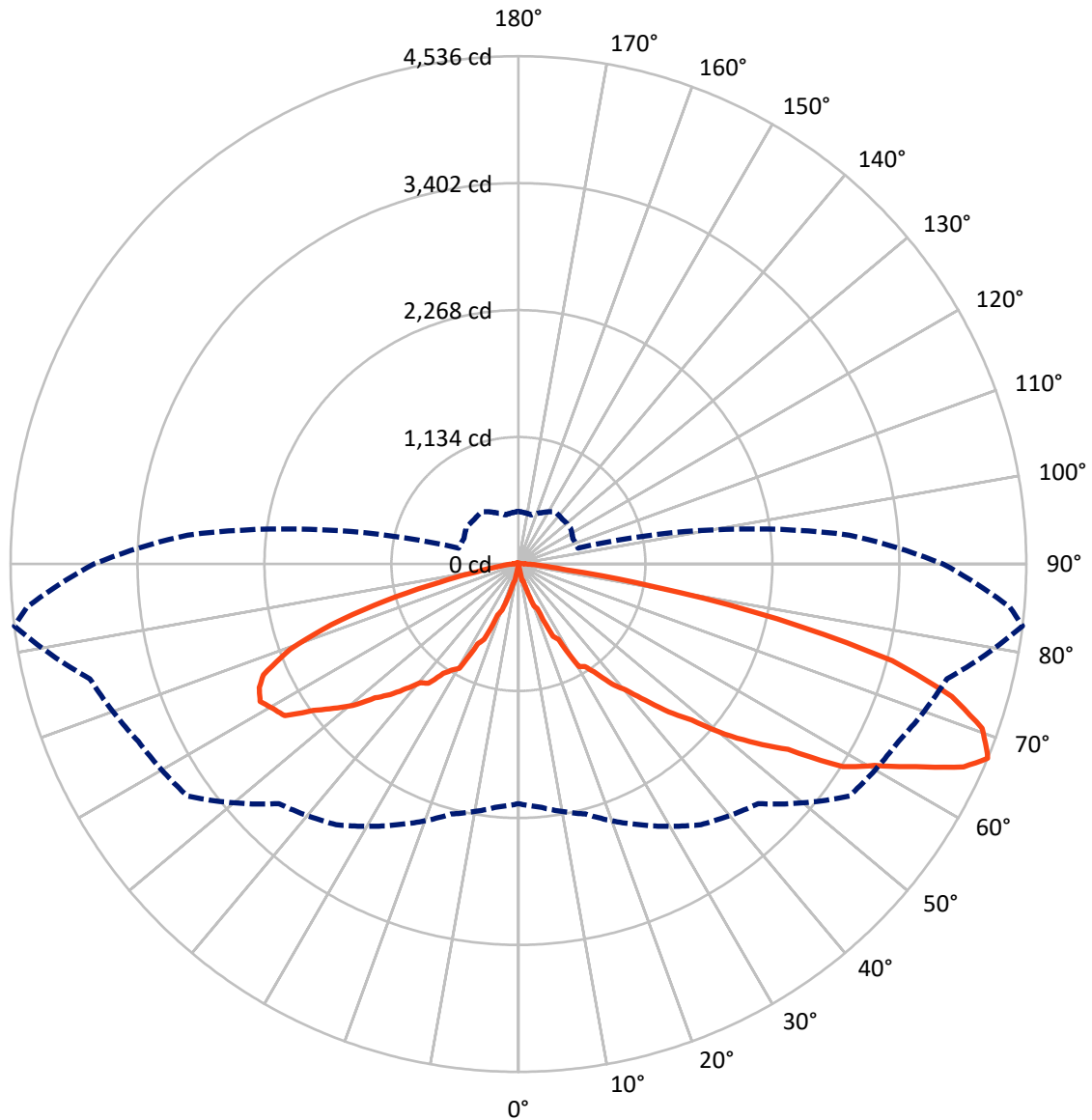
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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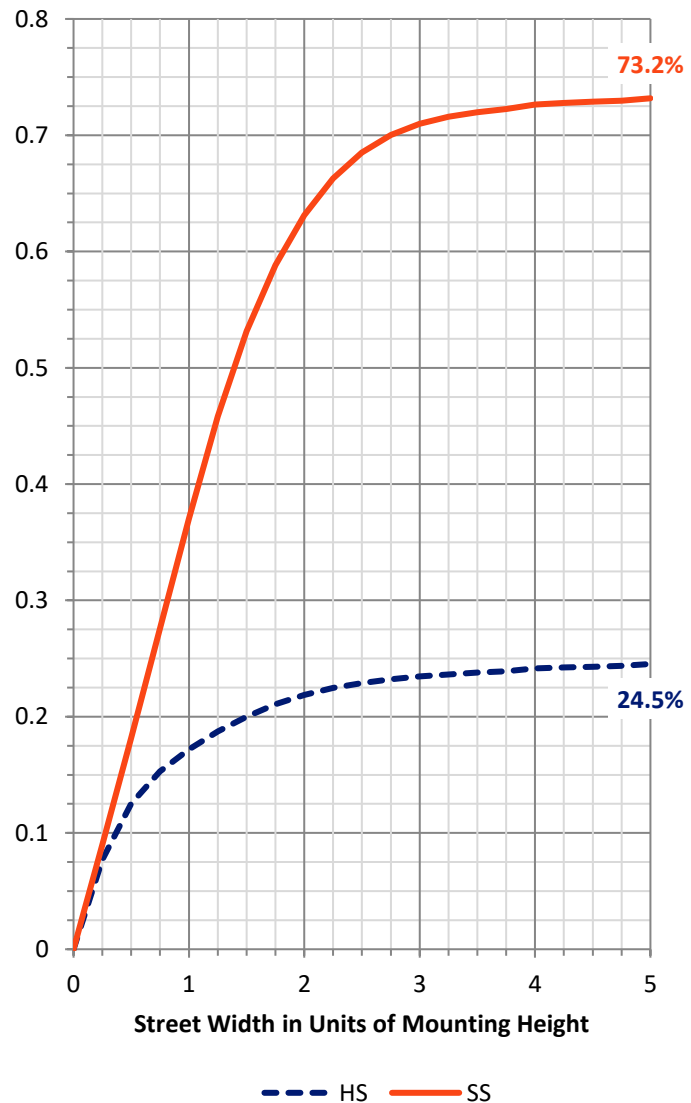
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1779.3	47.0	1826.4
	% Fixture	25.1	0.7	25.8
<b>Street Side</b>	Lumens	5225.2	39.6	5264.8
	% Fixture	73.7	0.6	74.2
<b>Total</b>	Lumens	7004.5	86.6	7091.1
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	64.1	0.9
20°-30°	257.7	3.6
30°-40°	569.1	8.0
40°-50°	1014.3	14.3
50°-60°	1627.8	23.0
60°-70°	1980.6	27.9
70°-80°	1276.3	18.0
80°-90°	209.7	3.0
90°-100°	43.1	0.6
100°-110°	19.7	0.3
110°-120°	9.9	0.1
120°-130°	7.1	0.1
130°-140°	4.4	0.1
140°-150°	2.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7004.5	98.8
0°-180°	7091.1	100.0



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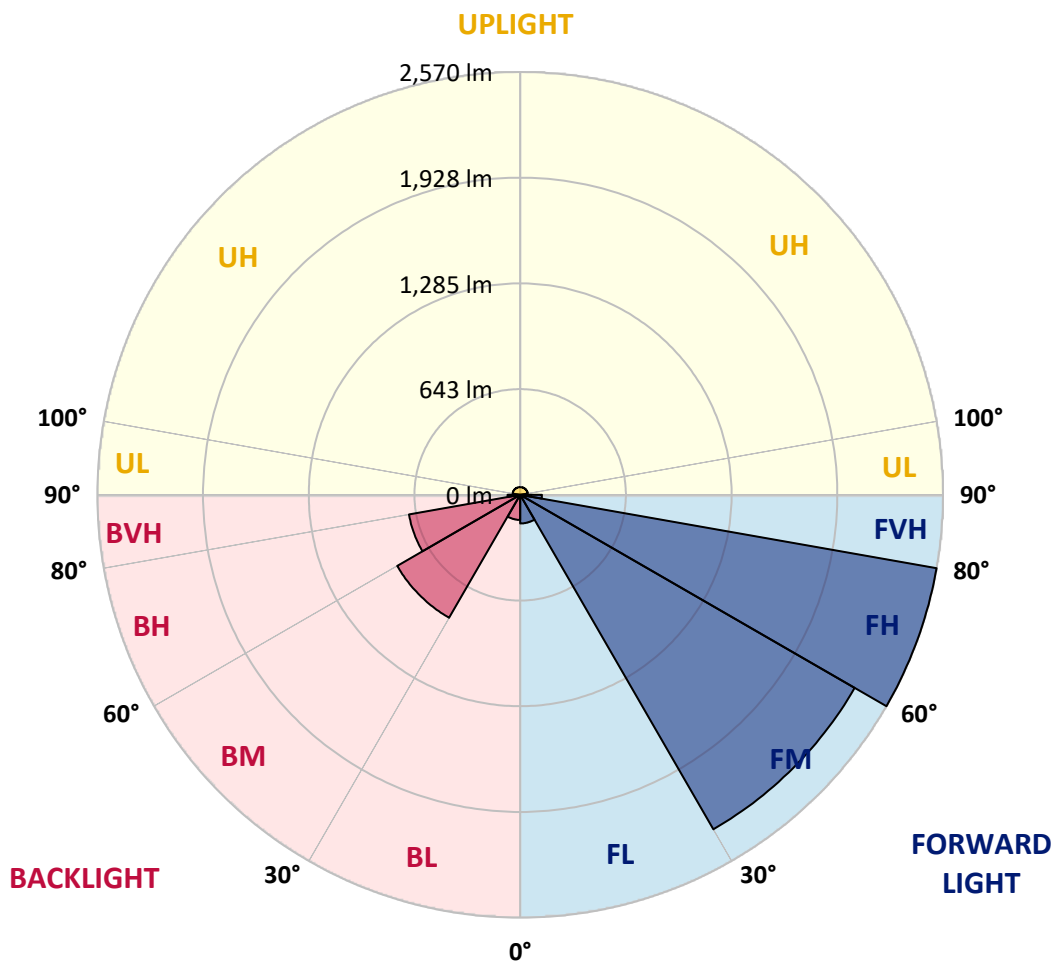
CATALOG NUMBER: UTLD-AF24-100-D-U-T3-CL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.2	2.5			
FM	(30°-60°)	2348.0	33.1			
FH	(60°-80°)	2570.5	36.2			G2/5000
FVH	(80°-90°)	132.6	1.9			G2/225
BL	(0°-30°)	152.6	2.2	B1/500		
BM	(30°-60°)	863.3	12.2	B1/1000		
BH	(60°-80°)	686.4	9.7	B2/1000		G2/1000
BVH	(80°-90°)	77.1	1.1			G1/100
UL	(90°-100°)	43.1	0.6		U2/50	
UH	(100°-180°)	47.0	0.7		U2/50	

**BUG Rating: B2-U2-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	35.7	35.7	35.7	32.2	27.8	22.5	20.0	17.3	16.4	16.4	16.4
5°	79.1	82.6	79.1	78.2	70.3	86.0	34.8	23.4	17.3	15.6	15.6
7.5°	112.1	113.8	92.0	85.1	68.6	93.9	75.5	42.6	21.6	17.3	16.4
10°	194.7	167.7	142.6	140.8	132.1	99.1	67.7	60.8	33.9	26.1	26.9
12.5°	188.6	193.8	190.4	184.2	169.4	141.7	90.4	116.4	127.6	150.2	141.7
15°	231.1	227.6	201.6	203.2	192.9	205.1	183.3	193.8	182.4	159.0	165.9
17.5°	358.0	345.8	362.2	278.0	203.2	249.4	253.7	226.7	242.5	250.2	278.0
20°	409.2	391.8	412.7	353.7	337.1	283.2	270.2	411.0	383.1	402.3	405.8
22.5°	565.7	556.1	496.0	404.9	430.9	361.4	385.7	426.5	435.3	430.9	444.8
25°	713.3	712.4	705.4	623.0	459.7	512.7	445.6	486.5	628.2	715.1	722.9
27.5°	844.4	837.5	788.1	764.5	643.7	578.6	531.6	674.2	719.4	761.0	770.7
30°	1067.7	1112.9	1006.1	869.6	779.3	666.4	715.1	711.5	866.1	1062.5	1072.9
32.5°	1253.7	1228.5	1117.3	1002.6	910.5	823.7	753.3	994.0	1036.5	1090.4	1114.6
35°	1528.2	1537.8	1420.5	1118.1	1042.6	922.6	985.3	1079.0	1108.6	1198.1	1205.0
37.5°	1596.8	1672.5	1603.8	1340.6	1108.6	1008.6	1059.9	1180.7	1278.0	1360.6	1308.4
40°	1899.1	1861.0	1714.1	1502.1	1245.1	1129.4	1296.3	1367.5	1382.2	1478.7	1490.8
42.5°	2195.5	2211.9	2030.3	1761.0	1422.2	1312.8	1458.7	1439.7	1580.4	1663.8	1708.9
45°	2484.0	2491.7	2348.3	2007.8	1706.3	1618.6	1547.3	1628.9	1863.5	1883.6	1894.9
47.5°	2679.4	2680.3	2619.5	2277.2	1946.1	1748.0	1725.5	1813.1	2046.0	2081.6	2092.1
50°	2984.3	2976.5	2836.7	2457.0	2263.2	2004.3	2092.1	2059.1	2260.7	2389.2	2417.0
52.5°	3104.3	3065.1	2990.4	2718.5	2548.2	2291.8	2252.0	2311.9	2542.2	2658.5	2750.6
55°	3026.0	3093.9	3079.8	2884.4	2632.5	2544.7	2440.4	2665.5	2743.7	2922.6	3085.9
57.5°	2863.5	2979.9	3034.7	2961.7	2824.5	2625.6	2812.4	2778.4	3078.1	3417.1	3526.4
60°	2752.3	2824.5	2935.8	3024.4	2924.4	2851.4	3032.9	3210.3	3324.8	3655.1	3801.0
62.5°	2552.5	2621.2	2799.3	2927.8	2871.4	2895.6	3277.9	3370.9	3708.9	3984.3	4183.2
65°	2315.3	2379.6	2588.1	2722.9	2857.5	2953.1	3433.5	3613.3	3853.1	4369.1	4397.1
67°	2140.8	2178.1	2311.0	2570.0	2841.0	3026.8	3610.7	3746.3	3961.7	4536.0	4404.7
67.5°	2082.5	2119.0	2227.5	2496.1	2831.4	3038.2	3661.1	3785.4	3977.3	4518.7	4403.1
70°	1602.9	1732.4	1734.9	1991.4	2528.2	2954.7	3750.7	3920.1	4072.0	4393.5	4251.0
72.5°	960.0	960.0	1004.3	1256.3	1792.4	2643.0	3750.7	3873.1	4004.4	4047.8	3807.9
75°	464.9	443.0	503.1	602.9	902.6	1782.7	3380.5	3549.9	3566.5	3448.2	3088.6
77.5°	383.1	332.7	316.3	309.2	483.9	667.3	2258.9	2771.5	2772.3	2365.7	2070.4
80°	239.8	242.5	249.4	214.5	277.1	344.9	900.9	1688.1	1534.3	1229.3	1035.6
82.5°	169.4	175.4	178.1	159.0	193.8	161.5	299.8	712.4	620.3	428.3	363.2
85°	119.0	115.5	129.4	107.7	116.4	95.6	165.1	306.7	349.3	212.0	200.7
87.5°	71.2	71.2	86.9	73.0	79.9	68.6	99.9	150.2	173.7	120.0	112.1
90°	42.6	39.0	40.9	41.7	45.2	39.0	53.9	72.1	75.5	60.8	55.7
92.5°	32.2	32.2	34.8	33.0	40.9	35.7	46.9	56.5	68.6	52.1	48.7
95°	20.8	23.4	26.1	26.9	31.4	26.9	39.0	46.1	51.3	40.0	38.2
97.5°	19.1	20.8	22.5	22.5	26.1	21.6	32.2	40.9	40.9	31.4	28.7
100°	18.2	19.1	20.0	20.0	21.6	17.3	25.2	35.7	35.7	26.1	24.3
102.5°	16.4	17.3	16.4	15.6	18.2	14.0	20.8	31.4	25.2	20.0	20.8
105°	16.4	16.4	14.7	13.0	14.7	11.3	18.2	22.5	17.3	16.4	17.3
107.5°	15.6	15.6	12.1	11.3	12.1	9.5	14.7	15.6	14.0	15.6	16.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	14.7	14.0	11.3	9.5	9.5	8.8	11.3	11.3	11.3	14.7	16.4
112.5°	13.0	12.1	9.5	7.8	7.8	6.9	7.8	8.8	10.4	14.0	15.6
115°	12.1	11.3	8.8	6.9	6.1	6.1	6.9	6.9	9.5	14.0	15.6
117.5°	12.1	11.3	7.8	6.9	5.2	5.2	6.1	6.9	9.5	14.0	15.6
120°	11.3	11.3	7.8	6.1	5.2	4.3	5.2	6.1	9.5	14.7	15.6
122.5°	11.3	10.4	7.8	6.1	4.3	4.3	4.3	5.2	8.8	14.0	14.7
125°	10.4	10.4	6.9	5.2	4.3	3.5	4.3	5.2	9.5	14.0	14.7
127.5°	10.4	9.5	6.9	5.2	3.5	3.5	4.3	4.3	8.8	13.0	14.0
130°	10.4	9.5	6.9	4.3	3.5	3.5	3.5	4.3	8.8	12.1	13.0
132.5°	8.8	8.8	6.1	4.3	3.5	2.6	3.5	3.5	6.9	10.4	11.3
135°	8.8	7.8	6.1	4.3	3.5	2.6	2.6	3.5	6.9	9.5	9.5
137.5°	7.8	6.9	6.1	4.3	2.6	2.6	1.7	2.6	6.1	7.8	8.8
140°	6.9	6.9	5.2	4.3	2.6	1.7	1.7	2.6	4.3	6.1	6.9
142.5°	6.9	6.9	6.1	4.3	2.6	1.7	1.7	1.7	3.5	5.2	5.2
145°	6.1	6.1	5.2	3.5	1.7	0.9	0.9	1.7	2.6	3.5	4.3
147.5°	6.1	6.1	5.2	3.5	1.7	0.9	0.9	1.7	2.6	3.5	3.5
150°	5.2	5.2	4.3	2.6	0.9	0.0	0.0	0.9	1.7	2.6	2.6
152.5°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	16.4	16.4	16.4	16.4	16.4	16.4	15.6	15.6	15.6	15.6	15.6
5°	14.7	14.7	15.6	15.6	15.6	15.6	15.6	16.4	17.3	17.3	18.2
7.5°	16.4	16.4	15.6	15.6	16.4	18.2	29.6	62.5	118.1	109.5	108.5
10°	26.1	26.1	23.4	21.6	23.4	85.1	133.8	126.8	106.9	104.3	100.8
12.5°	165.1	153.8	124.2	78.2	113.8	107.7	125.1	146.9	191.1	200.7	193.8
15°	165.9	173.0	186.8	202.4	256.2	113.8	220.7	270.2	288.4	288.4	294.6
17.5°	288.4	311.1	238.9	215.5	255.4	312.8	246.8	274.5	271.9	272.8	265.0
20°	469.2	424.0	467.4	419.6	286.6	350.1	307.6	294.6	397.1	472.6	472.6
22.5°	464.9	492.6	486.5	482.2	504.8	311.1	392.6	426.5	442.2	422.3	452.7
25°	775.9	746.3	705.4	481.3	483.9	432.7	424.0	397.9	432.7	466.5	459.7
27.5°	811.4	818.4	741.1	716.8	507.5	486.5	399.7	463.0	504.8	507.5	503.1
30°	1107.7	1121.7	874.9	660.3	570.0	443.9	467.4	446.5	466.5	489.9	503.1
32.5°	1172.0	1151.2	966.0	743.6	558.7	470.1	430.1	446.5	522.2	522.2	517.9
35°	1248.5	1232.8	995.6	706.3	609.1	439.6	397.9	444.8	466.5	504.8	507.5
37.5°	1402.3	1393.5	1093.0	704.6	542.1	415.2	437.8	449.2	456.1	464.9	457.0
40°	1503.9	1437.0	1122.5	735.9	524.8	481.3	456.1	423.1	429.2	407.6	397.9
42.5°	1695.0	1583.0	1151.2	715.1	511.8	530.9	424.0	417.9	403.1	380.5	380.5
45°	1889.7	1746.2	1189.4	672.4	493.4	515.2	437.0	427.5	414.4	411.0	403.1
47.5°	2087.8	1894.9	1183.2	699.4	553.4	482.2	547.3	459.7	395.3	429.2	426.5
50°	2413.6	2136.3	1188.5	646.4	551.6	473.4	548.2	435.3	423.1	449.2	451.8
52.5°	2679.4	2300.6	1260.6	616.0	534.3	548.2	518.7	527.3	498.6	490.8	500.4
55°	2997.4	2510.9	1213.7	579.4	520.4	517.0	610.8	530.9	504.8	530.0	532.5
57.5°	3396.1	2803.6	1224.1	520.4	524.8	497.8	597.7	594.3	578.6	566.4	562.1
60°	3627.3	2897.5	1126.8	555.2	508.3	549.0	634.3	616.0	533.5	619.4	633.3
62.5°	3808.9	3043.4	888.0	549.0	564.8	523.9	582.1	601.2	562.1	627.2	635.1
65°	3853.1	3035.6	680.2	563.9	558.7	582.1	689.0	590.7	490.8	500.4	504.8
67°	3792.4	2966.9	551.6	536.8	566.4	560.4	570.0	507.5	453.6	463.0	470.1
67.5°	3757.6	2911.3	523.1	535.2	585.5	559.6	558.7	488.3	443.0	455.3	457.9
70°	3434.4	2608.0	437.8	528.3	580.3	508.3	522.2	430.1	390.9	395.3	397.1
72.5°	2941.0	2093.0	417.9	525.6	570.0	424.0	401.5	351.9	332.7	326.7	318.0
75°	2257.1	1442.1	412.7	474.3	468.2	320.5	321.5	292.8	294.6	281.4	276.3
77.5°	1359.7	807.9	351.0	401.5	351.0	245.0	265.9	259.8	266.7	252.9	244.1
80°	651.6	394.4	277.1	295.5	247.7	192.0	226.7	236.3	238.1	218.1	208.4
82.5°	278.8	204.2	187.7	185.1	176.3	148.6	183.3	192.9	194.7	182.4	146.0
85°	164.2	139.0	129.4	124.2	122.4	92.0	131.2	155.4	155.4	128.5	111.2
87.5°	102.5	101.7	91.2	91.2	95.6	65.1	90.4	106.9	100.8	76.4	60.8
90°	48.7	52.1	54.7	55.7	65.1	36.6	58.2	61.7	58.2	41.7	29.6
92.5°	39.0	44.2	47.8	49.5	59.1	31.4	52.1	55.7	53.0	41.7	29.6
95°	32.2	40.0	47.8	46.9	49.5	24.3	46.1	50.3	48.7	36.6	25.2
97.5°	26.1	32.2	39.0	39.0	45.2	20.8	42.6	47.8	46.9	33.0	24.3
100°	23.4	28.7	34.8	33.9	40.0	16.4	38.2	41.7	40.9	26.9	21.6
102.5°	20.8	23.4	26.9	26.9	29.6	14.0	28.7	32.2	30.5	22.5	21.6
105°	19.1	20.0	19.1	18.2	19.1	12.1	18.2	20.8	18.2	17.3	17.3
107.5°	18.2	18.2	15.6	14.7	14.0	10.4	13.0	14.0	12.1	15.6	17.3



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.2	17.3	14.0	13.0	11.3	9.5	10.4	10.4	10.4	15.6	16.4
112.5°	17.3	17.3	13.0	11.3	10.4	8.8	8.8	7.8	9.5	15.6	17.3
115°	17.3	16.4	12.1	10.4	8.8	7.8	6.9	6.9	8.8	15.6	17.3
117.5°	17.3	16.4	12.1	9.5	8.8	6.9	6.1	6.1	8.8	15.6	17.3
120°	17.3	17.3	12.1	8.8	7.8	6.9	6.1	6.1	8.8	14.7	16.4
122.5°	16.4	16.4	11.3	8.8	6.9	6.1	5.2	5.2	8.8	14.7	15.6
125°	15.6	15.6	11.3	7.8	6.1	5.2	5.2	5.2	8.8	14.0	15.6
127.5°	14.7	14.7	10.4	6.9	5.2	5.2	4.3	4.3	8.8	14.0	14.7
130°	14.0	14.0	9.5	6.1	5.2	4.3	3.5	4.3	8.8	13.0	14.0
132.5°	12.1	12.1	8.8	5.2	4.3	3.5	3.5	3.5	7.8	12.1	13.0
135°	10.4	10.4	7.8	5.2	4.3	3.5	2.6	3.5	6.9	10.4	11.3
137.5°	9.5	9.5	6.9	4.3	3.5	2.6	2.6	3.5	6.9	9.5	10.4
140°	6.9	6.9	5.2	3.5	2.6	2.6	1.7	2.6	6.1	7.8	8.8
142.5°	5.2	5.2	4.3	3.5	2.6	1.7	1.7	2.6	5.2	6.9	6.9
145°	4.3	4.3	3.5	2.6	2.6	1.7	0.9	1.7	4.3	6.1	6.1
147.5°	3.5	3.5	3.5	2.6	1.7	0.9	0.9	0.9	2.6	4.3	4.3
150°	2.6	2.6	2.6	2.6	1.7	0.0	0.0	0.0	1.7	2.6	2.6
152.5°	1.7	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9
155°	0.9	1.7	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	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)