

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: P241017

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)  
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-T4W-CL-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7862.3 lumens  
Efficiency: N/A  
Efficacy: 81.9 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: B2 - U2 - G2

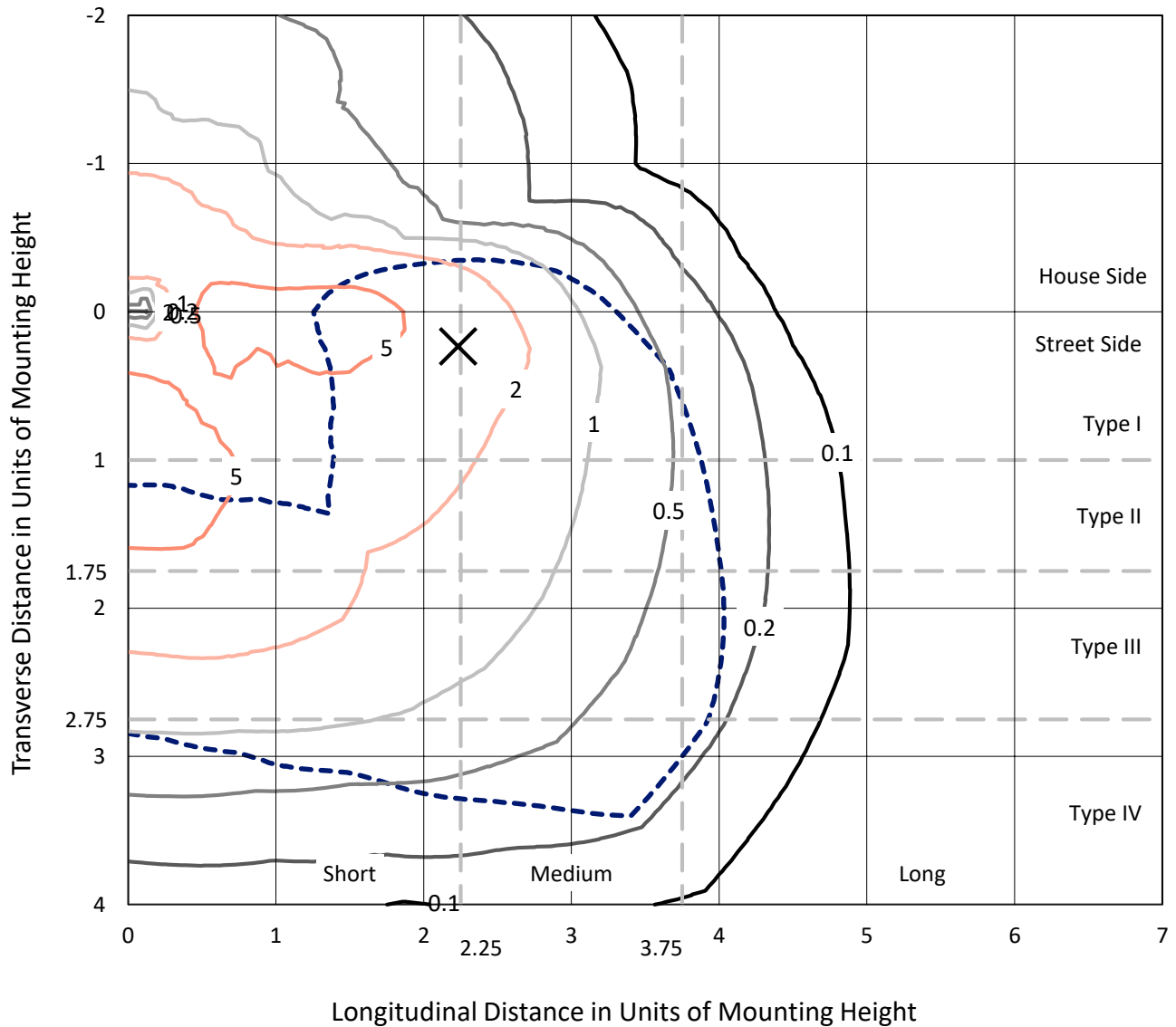
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

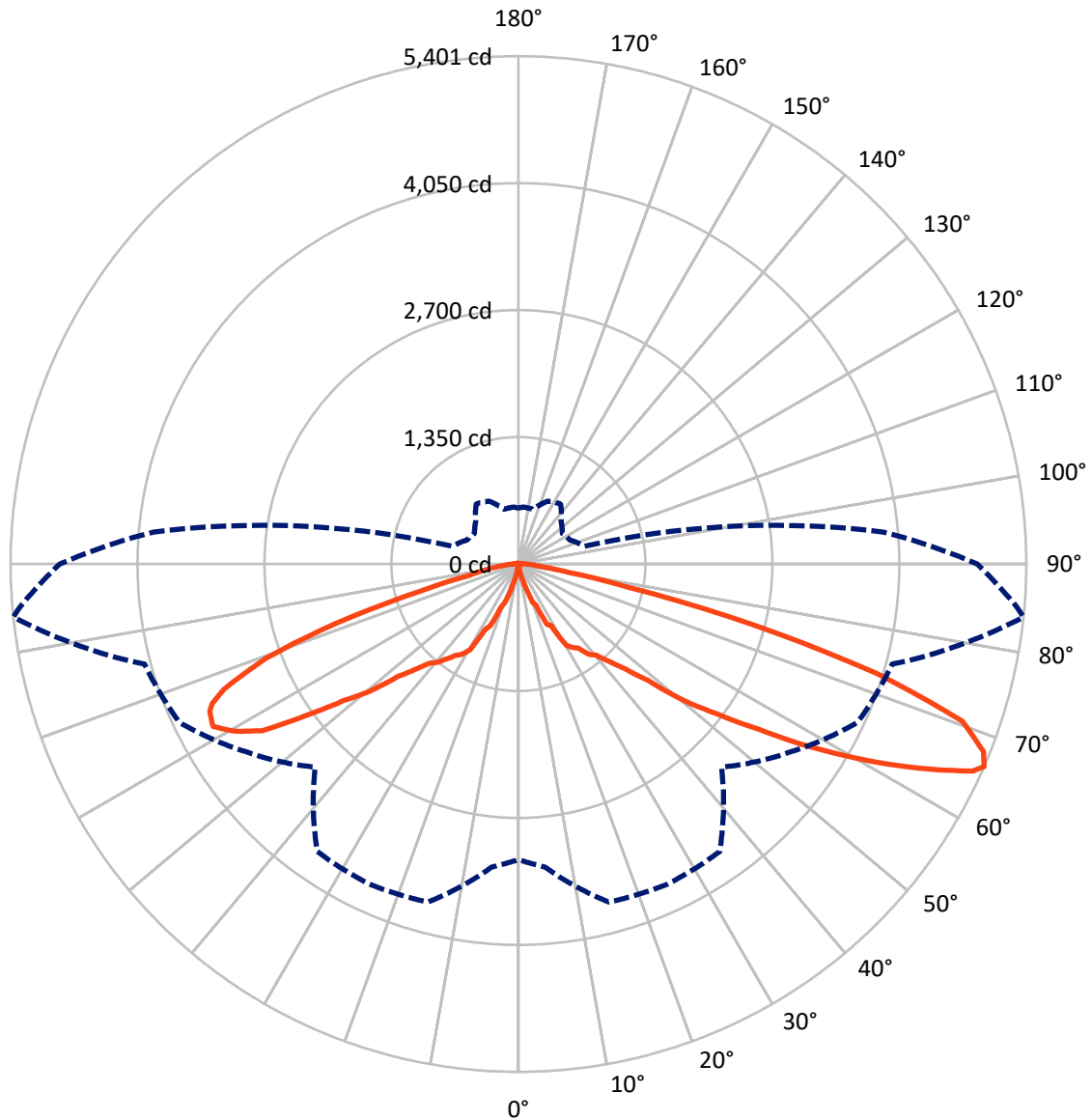
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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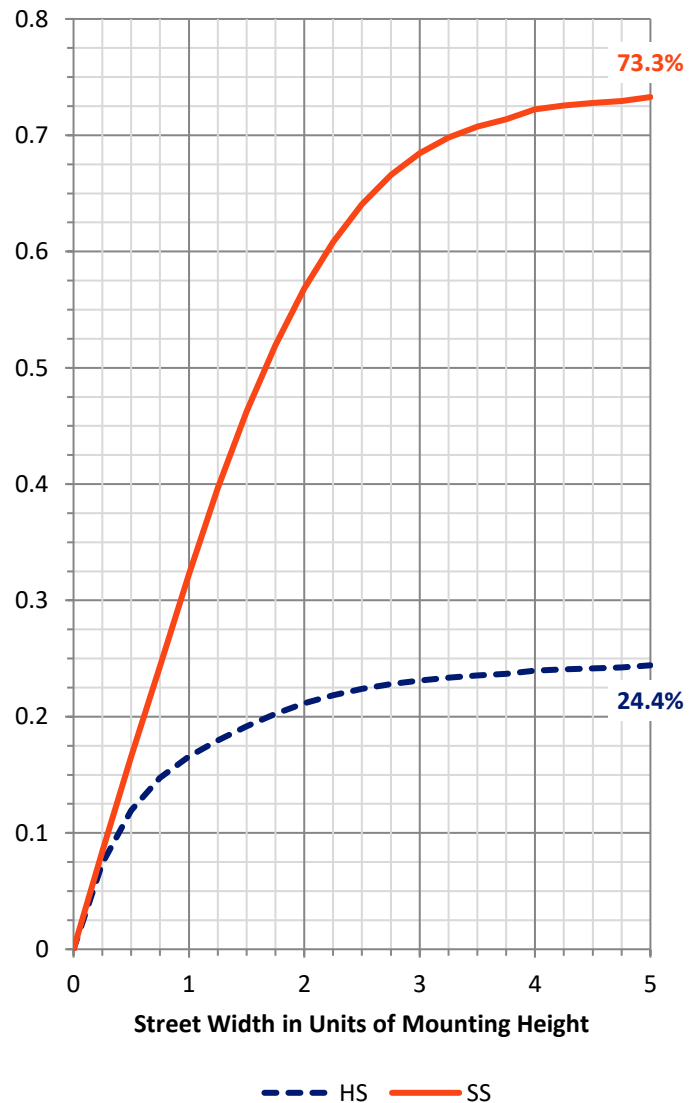
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1967.4	47.9	2015.3
	% Fixture	25.0	0.6	25.6
<b>Street Side</b>	Lumens	5802.0	45.0	5847.0
	% Fixture	73.8	0.6	74.4
<b>Total</b>	Lumens	7769.5	92.9	7862.3
	% Fixture	98.8	1.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	73.0	0.9
20°-30°	269.7	3.4
30°-40°	554.5	7.1
40°-50°	920.0	11.7
50°-60°	1604.2	20.4
60°-70°	2363.2	30.1
70°-80°	1724.6	21.9
80°-90°	254.4	3.2
90°-100°	47.4	0.6
100°-110°	21.7	0.3
110°-120°	10.3	0.1
120°-130°	7.1	0.1
130°-140°	4.2	0.1
140°-150°	1.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7769.5	98.8
0°-180°	7862.3	100.0

**Coefficient of Utilization**



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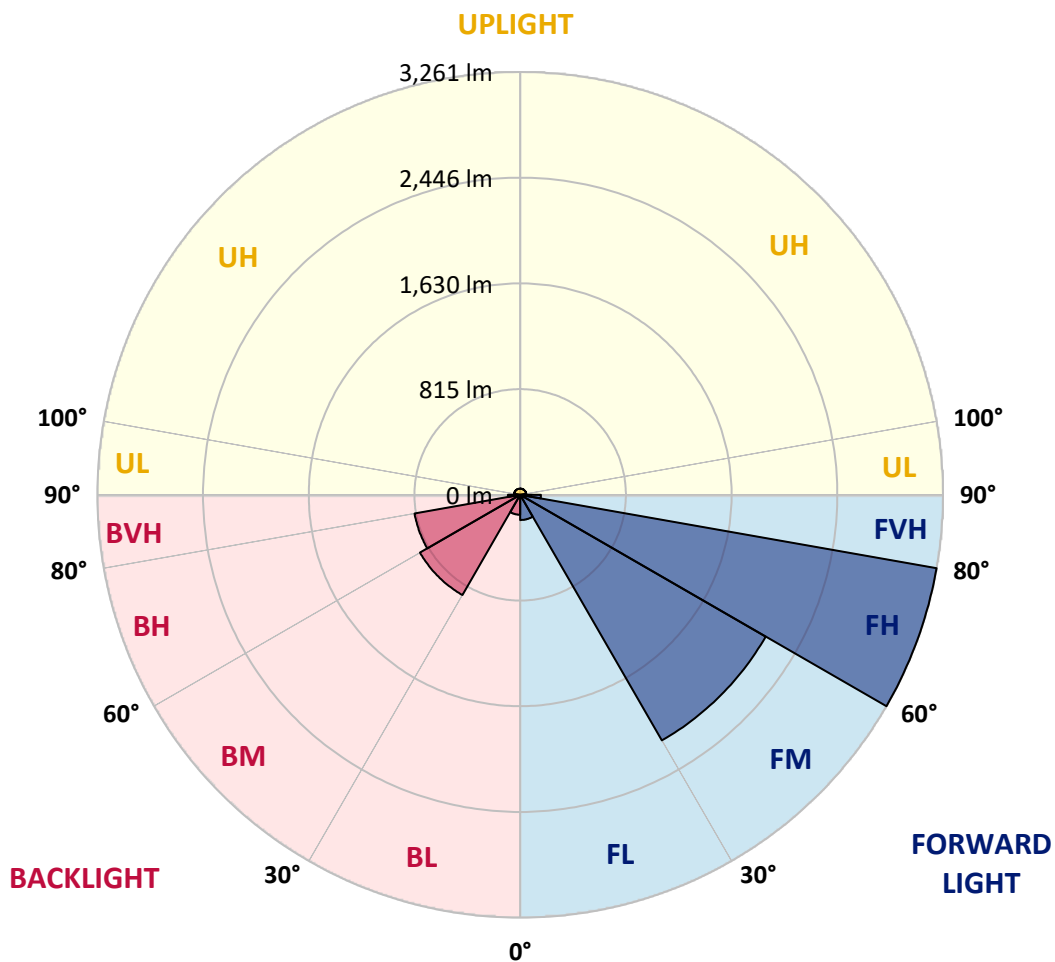
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-CL-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.6	2.5			
FM	(30°-60°)	2186.7	27.8			
FH	(60°-80°)	3260.8	41.5			G2/5000
FVH	(80°-90°)	160.0	2.0			G2/225
BL	(0°-30°)	153.9	2.0	B1/500		
BM	(30°-60°)	892.1	11.3	B1/1000		
BH	(60°-80°)	827.0	10.5	B2/1000		G2/1000
BVH	(80°-90°)	94.4	1.2			G1/100
UL	(90°-100°)	47.4	0.6		U2/50	
UH	(100°-180°)	47.9	0.6		U2/50	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	46.4	41.6	41.6	39.7	35.8	31.9	25.1	21.3	18.3	18.3	17.4
5°	88.9	93.9	108.2	99.7	82.2	107.4	48.4	31.9	20.3	17.4	17.4
7.5°	141.2	148.9	114.1	101.5	101.5	108.2	88.1	53.2	27.1	20.3	19.3
10°	296.0	279.4	194.4	197.3	167.2	117.0	80.3	70.6	41.6	32.9	29.9
12.5°	287.3	283.4	289.2	252.4	254.3	184.7	102.4	164.4	148.9	142.1	156.7
15°	370.4	366.6	294.0	299.8	271.7	282.4	237.9	237.0	229.2	192.6	184.7
17.5°	514.5	510.7	575.5	383.0	272.7	353.0	306.6	264.1	273.7	289.2	300.8
20°	513.5	507.7	534.9	459.4	465.2	364.6	326.9	480.7	439.1	441.1	415.8
22.5°	758.3	723.4	635.5	479.7	524.2	426.5	484.6	474.8	442.9	469.0	461.3
25°	736.0	749.5	719.6	709.8	533.8	611.3	532.9	548.4	677.0	711.9	712.8
27.5°	854.0	827.8	804.7	729.3	717.7	594.8	548.4	730.2	709.0	740.9	739.9
30°	1018.4	1009.8	1004.0	810.4	776.7	655.8	738.9	745.7	860.8	1005.8	1035.9
32.5°	1177.0	1135.4	1041.7	938.2	779.6	774.7	734.1	926.5	987.4	1056.2	1066.8
35°	1428.6	1427.6	1268.9	1003.0	872.4	823.0	950.8	998.1	997.2	1100.7	1163.5
37.5°	1643.3	1653.8	1487.6	1210.9	902.4	831.8	992.3	1076.4	1080.3	1220.5	1196.4
40°	1970.2	1942.1	1793.2	1445.9	1031.0	886.8	1088.1	1100.7	1180.0	1273.8	1308.6
42.5°	2202.2	2191.6	2143.2	1720.7	1180.0	988.5	1201.2	1147.1	1249.6	1419.9	1456.5
45°	2347.3	2295.1	2342.5	1921.8	1418.8	1206.1	1226.3	1298.9	1408.3	1588.1	1691.6
47.5°	2493.4	2533.0	2421.8	2073.6	1633.5	1306.6	1349.3	1578.5	1683.9	1845.4	1911.2
50°	2746.8	2704.2	2665.5	2301.9	1964.4	1467.3	1687.7	1656.8	1952.7	2282.5	2294.1
52.5°	2901.5	2901.5	2838.7	2501.2	2192.7	1704.1	1800.9	1911.2	2352.2	2651.0	2759.4
55°	3121.1	3166.6	3155.0	2736.2	2461.5	2026.2	2096.8	2329.0	2717.8	3101.8	3369.7
57.5°	3276.8	3339.6	3476.1	2987.5	2722.6	2157.8	2529.2	2787.4	3209.1	3676.2	4000.2
60°	3508.0	3509.0	3649.2	3210.0	3052.3	2408.3	2696.5	3213.0	3479.0	4228.5	4399.7
62.5°	3531.2	3570.8	3864.8	3556.3	3381.2	2669.4	3243.9	3432.5	3782.7	4783.7	4933.6
65°	3250.7	3357.1	3849.3	3718.7	3682.0	2910.2	3404.4	3866.8	4029.3	5309.8	5267.3
66°	3143.3	3233.3	3721.7	3754.5	3731.4	3054.4	3498.3	3980.0	4115.4	5400.6	5326.3
67.5°	3105.5	3171.4	3568.9	3793.3	3898.7	3315.5	3727.5	4035.1	4273.0	5334.9	5305.0
70°	2843.5	2925.8	3299.1	4048.6	4255.5	3794.2	4022.5	4168.6	4384.2	5009.0	4879.4
72.5°	2168.4	2252.6	2528.2	3340.6	4285.5	4502.2	4479.9	4336.8	4022.5	3980.0	3771.9
75°	1075.5	1165.5	1359.8	1946.9	3334.8	4423.0	4453.9	3910.3	3250.7	2566.9	2407.3
77.5°	556.1	626.7	525.2	745.7	1714.9	3137.5	3152.0	2578.5	1884.0	1199.3	1120.0
80°	379.1	394.7	357.9	367.5	706.1	1603.6	1495.2	1372.4	758.3	550.3	574.4
82.5°	278.5	257.3	246.6	267.9	381.1	501.0	537.8	593.9	405.3	279.4	295.0
85°	131.5	145.1	142.1	163.5	232.1	171.2	263.1	356.8	269.9	179.8	177.0
87.5°	82.2	81.3	87.1	100.6	140.3	113.2	144.1	177.0	162.5	112.2	110.3
90°	54.2	48.4	45.5	54.2	78.3	56.0	77.3	100.6	91.9	60.9	57.1
92.5°	36.7	36.7	39.7	45.5	67.7	60.0	55.1	57.1	57.1	47.4	45.5
95°	27.1	29.1	32.9	33.9	40.7	34.9	44.5	49.2	50.3	38.7	37.7
97.5°	23.2	25.1	27.1	28.1	33.9	28.1	36.7	43.4	42.5	30.9	31.9
100°	21.3	23.2	23.2	24.1	27.1	21.3	29.9	40.7	38.7	27.1	26.1
102.5°	20.3	20.3	19.3	19.3	21.3	16.4	25.1	35.8	29.1	22.3	20.3
105°	19.3	19.3	16.4	15.6	16.4	13.5	20.3	27.1	20.3	18.3	18.3
107.5°	18.3	17.4	14.5	12.6	13.5	10.6	16.4	17.4	14.5	16.4	17.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	16.4	16.4	12.6	10.6	10.6	8.7	11.6	12.6	12.6	16.4	17.4
112.5°	15.6	14.5	10.6	8.7	8.7	7.7	8.7	9.8	10.6	15.6	16.4
115°	14.5	13.5	9.8	7.7	6.8	5.8	6.8	7.7	9.8	15.6	15.6
117.5°	13.5	12.6	8.7	6.8	5.8	4.8	5.8	6.8	9.8	15.6	15.6
120°	13.5	12.6	8.7	5.8	4.8	4.8	4.8	5.8	10.6	15.6	16.4
122.5°	12.6	12.6	8.7	5.8	4.8	3.9	3.9	5.8	9.8	14.5	14.5
125°	12.6	12.6	7.7	4.8	3.9	3.9	3.9	4.8	9.8	13.5	14.5
127.5°	11.6	11.6	7.7	4.8	3.9	2.9	2.9	4.8	8.7	13.5	13.5
130°	11.6	11.6	7.7	3.9	2.9	2.9	2.9	3.9	8.7	12.6	12.6
132.5°	9.8	9.8	6.8	3.9	2.9	1.9	2.9	3.9	7.7	10.6	11.6
135°	9.8	9.8	6.8	3.9	2.9	1.9	1.9	3.9	6.8	9.8	9.8
137.5°	8.7	8.7	5.8	3.9	2.9	1.9	1.9	2.9	5.8	8.7	8.7
140°	7.7	7.7	6.8	3.9	2.9	1.9	1.9	1.9	4.8	6.8	6.8
142.5°	7.7	7.7	5.8	3.9	1.9	1.0	1.0	1.9	3.9	4.8	4.8
145°	6.8	6.8	5.8	3.9	1.9	1.0	1.0	1.9	2.9	3.9	3.9
147.5°	6.8	6.8	5.8	2.9	1.0	1.0	1.0	1.9	2.9	3.9	3.9
150°	5.8	5.8	3.9	1.9	0.0	0.0	1.0	1.0	1.9	2.9	2.9
152.5°	3.9	3.9	2.9	1.0	0.0	0.0	0.0	1.0	1.9	1.9	1.9
155°	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	17.4	17.4	17.4	17.4	17.4	17.4	16.4	16.4	16.4	16.4	16.4
5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	17.4	18.3	18.3	18.3
7.5°	18.3	18.3	17.4	16.4	17.4	19.3	29.1	66.7	97.7	119.9	119.0
10°	29.9	29.9	28.1	24.1	29.9	65.8	129.6	130.6	108.2	99.7	103.5
12.5°	158.7	141.2	119.9	98.7	96.7	117.0	110.3	153.7	172.2	184.7	182.8
15°	181.8	192.6	176.0	197.3	202.1	119.9	187.6	251.6	270.9	278.5	287.3
17.5°	299.8	331.7	237.0	224.4	225.4	239.9	253.4	265.9	271.7	268.9	269.9
20°	451.7	430.4	462.2	394.7	301.8	321.1	294.0	290.2	383.0	465.2	454.5
22.5°	461.3	498.1	455.5	416.9	461.3	326.9	405.3	430.4	442.9	453.7	467.2
25°	746.7	729.3	638.3	478.8	455.5	436.2	440.1	449.7	473.9	510.7	532.9
27.5°	793.1	789.2	706.1	645.0	485.5	545.5	451.7	543.6	587.0	625.7	633.4
30°	1066.8	1077.4	812.5	619.9	562.9	467.2	524.2	560.0	593.9	648.0	649.0
32.5°	1133.6	1155.8	898.5	685.7	590.0	483.6	527.0	554.2	682.9	733.1	735.1
35°	1150.9	1208.0	926.5	661.6	569.7	481.7	486.5	579.3	643.2	745.7	782.4
37.5°	1333.7	1292.1	984.5	670.3	532.9	463.3	525.2	556.1	656.7	722.5	735.1
40°	1411.1	1387.9	1022.3	687.7	526.2	515.4	486.5	518.4	565.8	613.2	613.2
42.5°	1555.2	1464.3	1043.5	675.1	511.7	553.2	443.9	479.7	524.2	496.1	507.7
45°	1746.7	1624.9	1116.1	608.3	484.6	470.1	426.5	481.7	453.7	453.7	447.9
47.5°	1994.3	1828.0	1091.9	585.2	545.5	444.9	562.9	452.7	417.8	433.3	434.3
50°	2386.0	2188.7	1166.5	569.7	517.5	436.2	481.7	437.1	437.1	447.9	443.9
52.5°	2877.4	2488.6	1198.3	568.7	489.4	507.7	477.8	523.3	452.7	490.3	485.5
55°	3409.3	2940.1	1231.3	560.9	484.6	458.5	584.2	501.0	470.1	538.7	540.7
57.5°	4083.4	3463.4	1366.7	545.5	486.5	459.4	551.3	560.9	572.5	618.1	624.8
60°	4503.2	3753.6	1246.6	574.4	481.7	524.2	641.3	626.7	591.0	759.3	784.4
62.5°	4823.4	3973.2	1027.1	598.6	569.7	528.0	662.5	731.2	698.2	766.0	785.3
65°	4881.3	3953.8	785.3	598.6	561.9	615.1	795.0	729.3	621.9	628.7	620.9
66°	4877.5	3894.9	723.4	603.5	569.7	641.3	780.5	737.9	601.6	608.3	593.9
67.5°	4718.0	3708.2	628.7	596.8	623.9	658.7	767.0	688.7	578.4	580.2	565.8
70°	4103.8	3127.9	534.9	613.2	647.1	660.6	838.6	641.3	531.0	517.5	514.5
72.5°	3018.5	2218.7	501.0	610.3	656.7	640.3	707.0	527.0	458.5	431.3	428.4
75°	1697.4	1133.6	499.1	585.2	581.3	549.3	534.9	406.2	379.1	347.2	341.4
77.5°	782.4	546.4	422.7	471.0	439.1	434.3	398.5	338.4	323.1	301.8	293.1
80°	452.7	385.9	300.8	312.4	315.3	306.6	322.1	304.7	288.2	272.7	258.3
82.5°	264.1	244.7	219.5	206.1	206.1	220.4	265.0	253.4	240.8	227.3	195.3
85°	165.4	158.7	149.9	144.1	144.1	132.5	190.5	211.9	200.2	171.2	152.9
87.5°	108.2	113.2	100.6	101.5	98.7	88.1	128.6	142.1	121.9	97.7	81.3
90°	49.2	54.2	59.0	58.0	62.9	48.4	70.6	72.5	64.8	44.5	31.9
92.5°	37.7	44.5	49.2	49.2	54.2	32.9	51.3	57.1	53.2	41.6	29.9
95°	31.9	39.7	47.4	46.4	46.4	26.1	47.4	53.2	50.3	35.8	26.1
97.5°	26.1	31.9	38.7	38.7	42.5	22.3	43.4	51.3	48.4	35.8	25.1
100°	24.1	29.1	33.9	34.9	38.7	17.4	39.7	48.4	43.4	29.9	24.1
102.5°	22.3	24.1	28.1	28.1	29.1	15.6	31.9	39.7	34.9	23.2	23.2
105°	20.3	20.3	20.3	18.3	18.3	12.6	19.3	27.1	21.3	18.3	20.3
107.5°	19.3	18.3	15.6	14.5	13.5	10.6	13.5	16.4	12.6	16.4	18.3



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.3	18.3	14.5	12.6	11.6	9.8	11.6	10.6	10.6	16.4	17.4
112.5°	18.3	17.4	12.6	10.6	9.8	8.7	9.8	7.7	9.8	16.4	17.4
115°	17.4	17.4	11.6	9.8	9.8	7.7	7.7	6.8	8.7	15.6	17.4
117.5°	17.4	17.4	11.6	8.7	7.7	6.8	6.8	6.8	8.7	15.6	17.4
120°	17.4	16.4	11.6	8.7	6.8	5.8	5.8	5.8	8.7	15.6	16.4
122.5°	16.4	15.6	10.6	7.7	6.8	5.8	4.8	5.8	8.7	14.5	15.6
125°	15.6	15.6	10.6	6.8	5.8	4.8	3.9	4.8	8.7	14.5	15.6
127.5°	15.6	14.5	9.8	5.8	4.8	4.8	3.9	4.8	8.7	13.5	14.5
130°	13.5	13.5	8.7	5.8	3.9	3.9	2.9	3.9	8.7	13.5	13.5
132.5°	12.6	11.6	7.7	4.8	3.9	2.9	2.9	2.9	7.7	11.6	12.6
135°	10.6	9.8	6.8	3.9	2.9	2.9	1.9	2.9	6.8	10.6	10.6
137.5°	8.7	8.7	6.8	3.9	2.9	1.9	1.9	2.9	6.8	9.8	10.6
140°	7.7	6.8	4.8	2.9	1.9	1.9	1.9	2.9	5.8	7.7	8.7
142.5°	5.8	5.8	3.9	2.9	1.9	1.9	1.0	1.9	4.8	6.8	6.8
145°	4.8	4.8	3.9	1.9	1.9	1.0	1.0	1.0	3.9	4.8	5.8
147.5°	3.9	3.9	2.9	1.9	1.0	1.0	0.0	1.0	2.9	3.9	3.9
150°	2.9	2.9	2.9	1.9	1.0	0.0	0.0	0.0	1.0	1.9	1.9
152.5°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	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)