

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: P240486

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-TL**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)  
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-TL  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8037.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B2 - U3 - G3

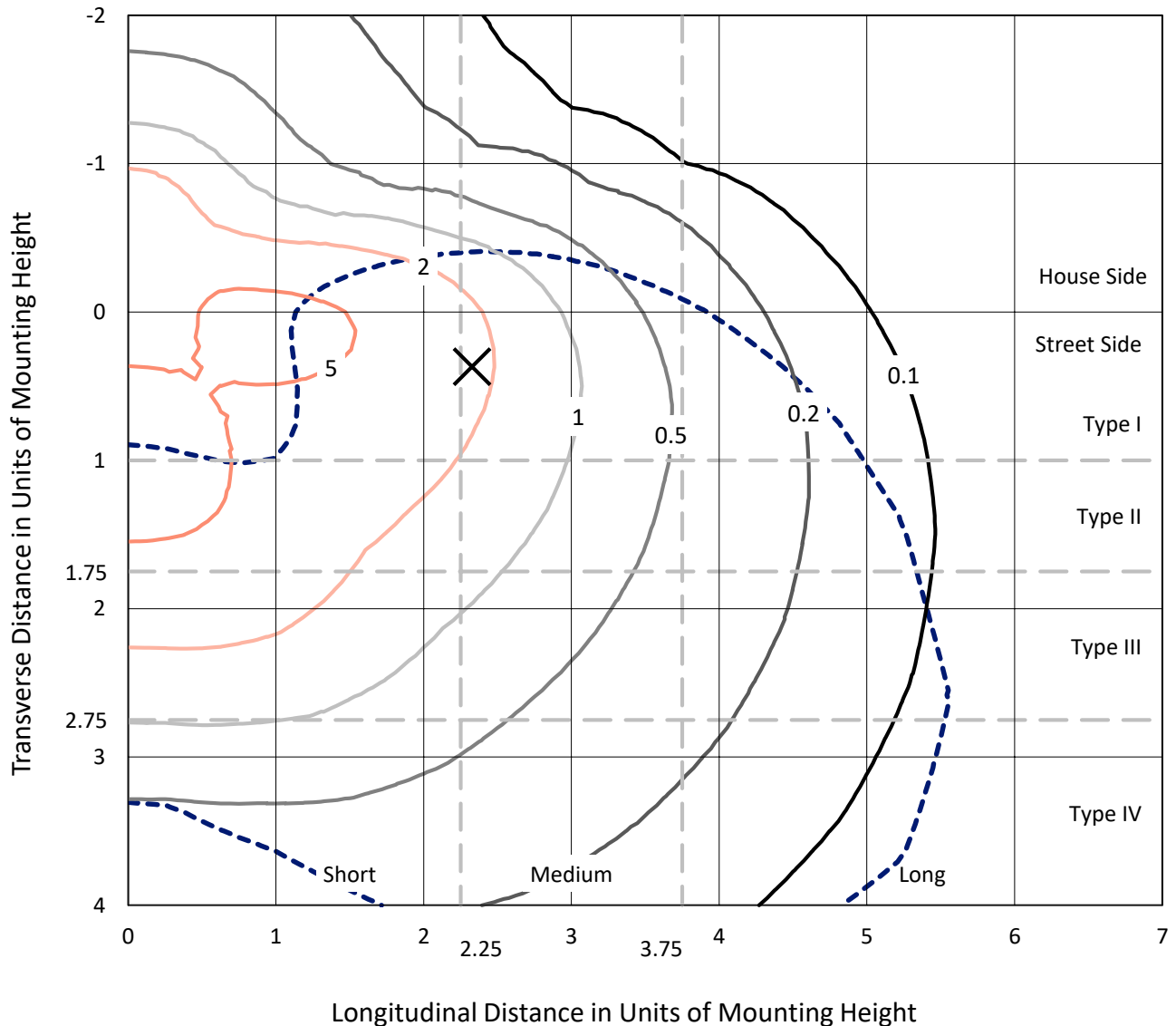
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

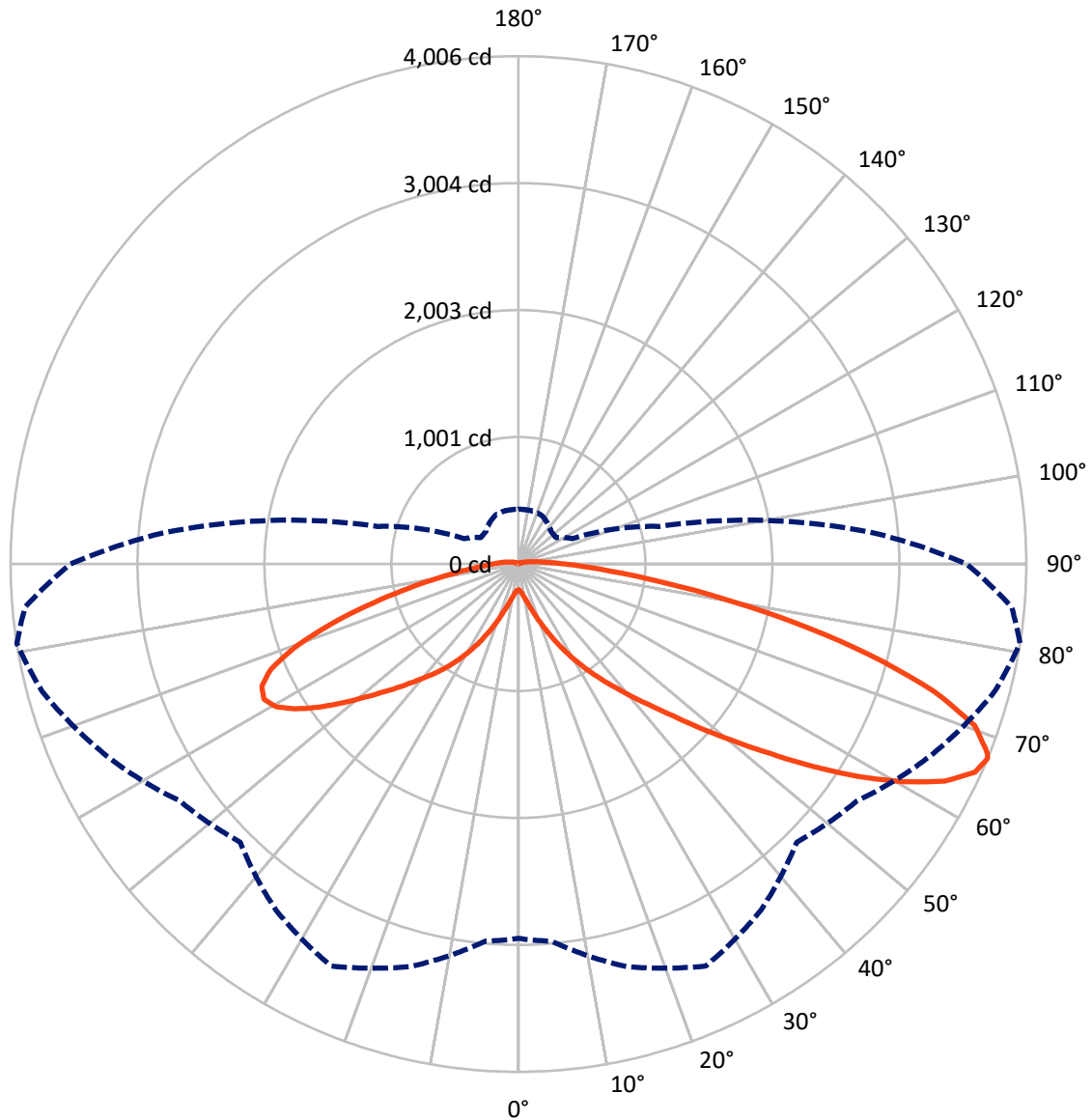
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical



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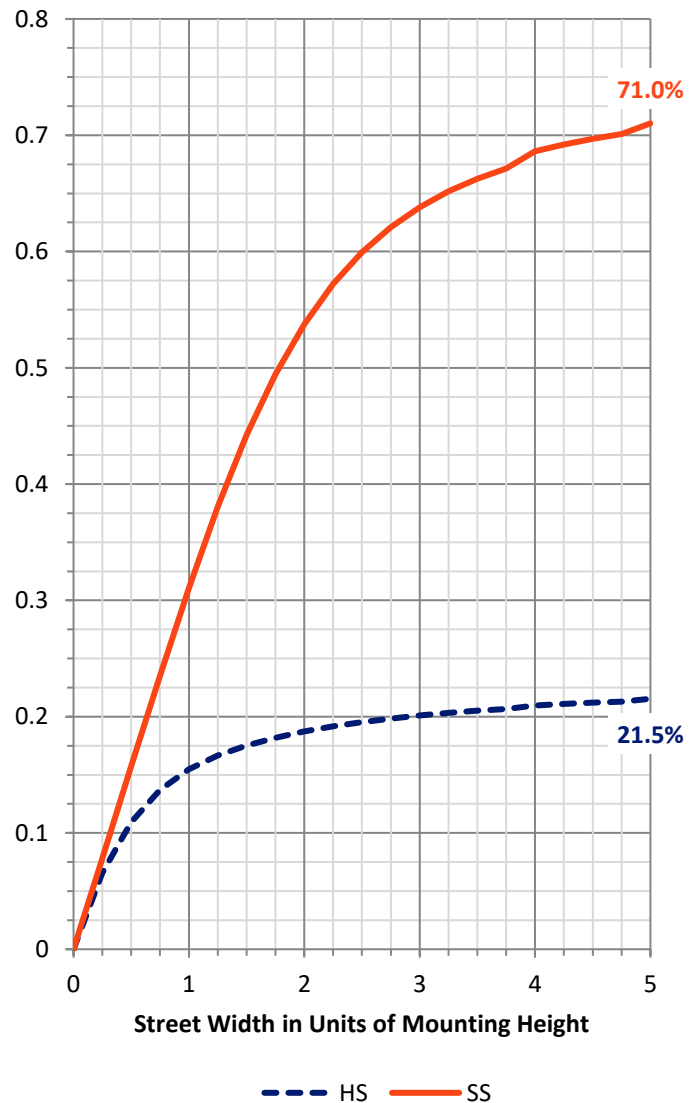
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1826.6	147.0	1973.6
	% Fixture	22.7	1.8	24.6
<b>Street Side</b>	Lumens	5895.9	167.9	6063.8
	% Fixture	73.4	2.1	75.4
<b>Total</b>	Lumens	7722.5	314.9	8037.4
	% Fixture	96.1	3.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.5	0.3
10°-20°	101.5	1.3
20°-30°	274.1	3.4
30°-40°	550.2	6.8
40°-50°	929.9	11.6
50°-60°	1486.7	18.5
60°-70°	2031.4	25.3
70°-80°	1674.5	20.8
80°-90°	651.8	8.1
90°-100°	187.6	2.3
100°-110°	71.9	0.9
110°-120°	31.1	0.4
120°-130°	14.9	0.2
130°-140°	7.0	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7722.5	96.1
0°-180°	8037.4	100.0



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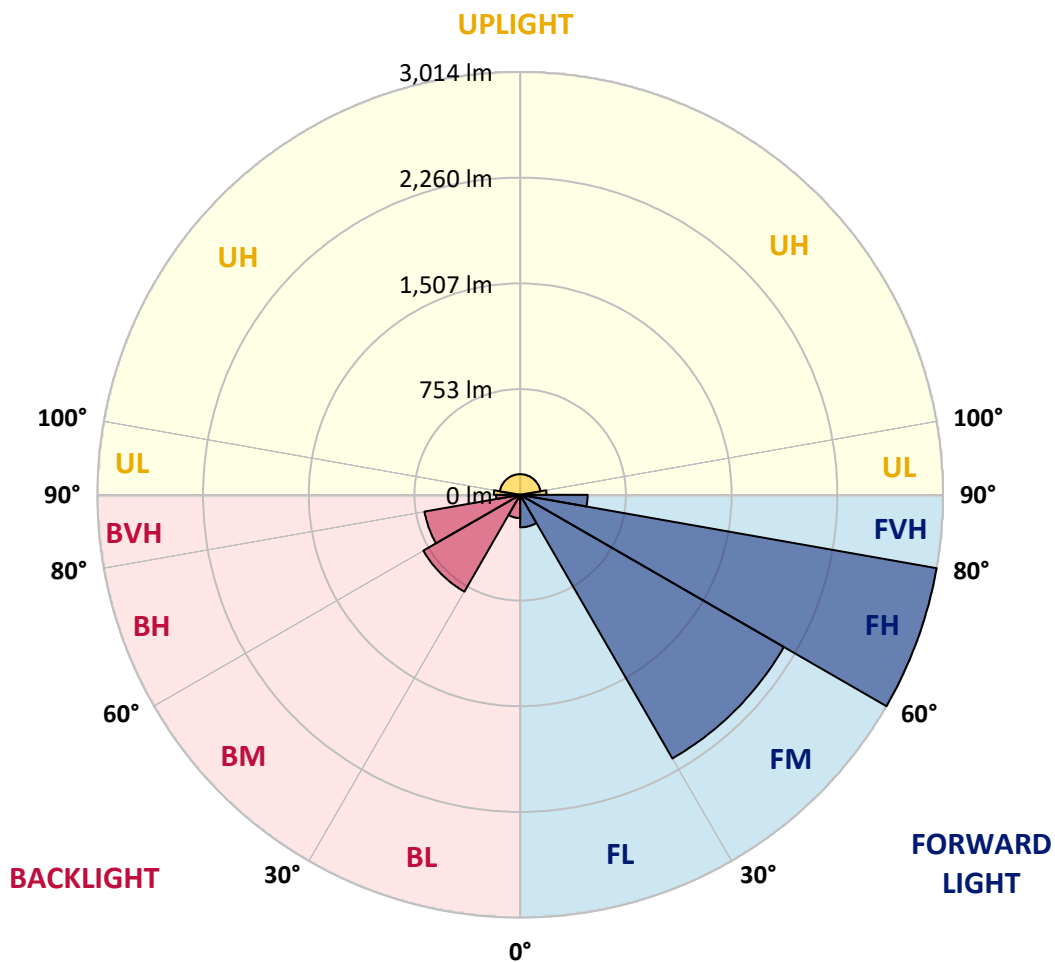
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-TL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	232.1	2.9			
FM	(30°-60°)	2169.9	27.0			
FH	(60°-80°)	3013.6	37.5			G2/5000
FVH	(80°-90°)	480.2	6.0			G3/500
BL	(0°-30°)	165.9	2.1	B1/500		
BM	(30°-60°)	796.9	9.9	B1/1000		
BH	(60°-80°)	692.2	8.6	B2/1000		G2/1000
BVH	(80°-90°)	171.6	2.1			G2/225
UL	(90°-100°)	187.6	2.3		U3/500	
UH	(100°-180°)	147.0	1.8		U3/500	

**BUG Rating: B2-U3-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6
2.5°	219.9	219.9	219.9	218.9	217.9	215.8	213.8	211.8	210.7	209.7	208.7
5°	242.4	243.5	242.4	241.4	238.3	235.3	231.2	228.1	224.0	222.0	221.0
7.5°	276.2	276.2	275.2	270.1	267.0	261.9	256.8	250.6	246.5	243.5	239.4
10°	319.2	317.1	315.1	310.0	302.8	294.6	288.5	281.3	274.2	272.1	268.0
12.5°	370.3	370.3	365.2	358.0	344.7	336.6	326.3	318.1	311.0	306.9	304.8
15°	438.8	435.8	426.6	415.3	399.0	382.6	371.3	365.2	358.0	358.0	350.9
17.5°	508.4	511.5	497.2	479.8	457.3	436.8	423.5	422.5	419.4	417.4	416.3
20°	599.4	596.4	579.0	549.3	516.6	492.0	482.8	483.9	492.0	491.0	486.9
22.5°	697.7	697.7	671.1	631.2	585.1	555.5	546.3	555.5	572.9	572.9	574.9
25°	814.3	810.2	776.4	716.1	660.8	622.0	617.9	632.2	662.9	668.0	665.9
27.5°	945.2	930.9	886.9	812.2	739.6	695.6	688.4	715.0	757.0	771.3	776.4
30°	1084.3	1085.4	1017.8	920.7	822.5	764.1	761.1	804.0	854.2	878.7	884.9
32.5°	1244.9	1239.8	1162.1	1040.3	913.5	837.8	834.7	894.1	957.5	989.2	993.3
35°	1444.4	1420.9	1333.9	1174.3	1007.6	921.7	919.6	984.1	1066.9	1106.8	1117.1
37.5°	1627.5	1615.2	1516.0	1313.5	1115.0	1006.6	1002.5	1086.4	1184.6	1230.6	1244.9
40°	1841.3	1827.0	1710.4	1479.2	1242.9	1104.8	1102.7	1197.9	1311.4	1369.7	1382.0
42.5°	2051.0	2041.8	1916.0	1663.3	1377.9	1215.3	1211.2	1321.7	1455.7	1521.1	1536.5
45°	2276.1	2252.5	2130.8	1851.5	1528.3	1343.1	1345.2	1464.9	1630.6	1707.3	1722.6
47.5°	2468.3	2454.0	2351.8	2055.1	1694.0	1482.3	1485.3	1644.9	1846.4	1935.4	1942.6
50°	2678.0	2669.8	2568.5	2271.0	1893.5	1655.1	1660.2	1840.3	2083.8	2186.0	2221.8
52.5°	2851.9	2852.9	2776.2	2492.8	2089.9	1841.3	1856.7	2073.5	2341.5	2478.5	2500.0
55°	3021.7	3016.6	2971.6	2736.3	2323.1	2050.0	2067.4	2331.3	2649.3	2815.1	2843.7
57.5°	3144.4	3157.7	3162.9	2969.5	2549.1	2259.7	2317.0	2599.2	2984.9	3162.9	3188.4
60°	3229.4	3235.5	3307.1	3203.8	2793.6	2507.2	2581.8	2896.9	3299.9	3487.1	3503.5
62.5°	3221.2	3247.8	3386.9	3379.7	3030.9	2742.4	2837.6	3176.2	3574.1	3772.5	3775.6
65°	3111.7	3155.7	3388.9	3491.2	3227.3	2965.4	3088.2	3427.8	3799.1	3956.7	3915.8
67°	2953.2	2986.9	3286.6	3498.4	3333.7	3103.5	3259.0	3583.3	3888.1	4005.8	3906.5
67.5°	2886.7	2947.0	3248.8	3491.2	3344.9	3133.2	3286.6	3624.2	3906.5	3990.4	3884.0
70°	2566.5	2613.5	2952.1	3344.9	3349.0	3223.2	3401.2	3673.3	3837.0	3818.6	3626.3
72.5°	2132.9	2154.3	2525.6	3022.7	3195.6	3187.4	3367.5	3546.5	3544.4	3422.7	3189.5
75°	1616.3	1673.5	2008.1	2537.8	2875.4	2987.9	3151.6	3210.9	3069.8	2865.2	2582.8
77.5°	1140.6	1170.3	1465.9	1995.8	2430.4	2640.1	2755.7	2728.1	2468.3	2227.0	1971.2
80°	738.6	767.2	970.8	1430.1	1905.8	2129.8	2235.1	2153.3	1891.4	1608.1	1393.3
82.5°	447.0	471.6	614.8	959.5	1400.4	1651.0	1704.2	1625.5	1333.9	1098.6	929.9
85°	261.9	281.3	381.6	618.9	954.4	1191.7	1211.2	1121.2	896.1	734.5	619.9
87.5°	159.6	169.8	241.4	395.9	633.2	804.0	843.9	760.1	603.5	491.0	417.4
90°	103.3	110.5	154.5	259.8	415.3	530.9	555.5	507.4	409.2	334.5	287.4
92.5°	70.6	77.7	107.4	173.9	273.1	351.9	367.2	333.5	275.2	235.3	209.7
95°	54.2	57.3	81.8	122.8	186.2	235.3	249.6	227.1	192.3	172.9	157.5
97.5°	44.0	46.0	65.5	95.1	135.0	168.8	174.9	158.6	142.2	129.9	122.8
100°	37.8	38.9	55.2	77.7	105.4	127.9	130.9	118.7	107.4	101.3	95.1
102.5°	33.8	34.8	48.1	66.5	85.9	101.3	101.3	92.1	81.8	77.7	74.7
105°	29.7	30.7	43.0	57.3	73.7	82.9	82.9	72.6	63.4	59.3	58.3
107.5°	26.6	27.6	36.8	50.1	62.4	69.6	68.5	58.3	48.1	44.0	44.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	24.6	24.6	32.7	44.0	53.2	59.3	56.3	47.1	36.8	33.8	34.8
112.5°	22.5	22.5	28.6	37.8	47.1	51.1	47.1	38.9	28.6	26.6	27.6
115°	21.5	21.5	25.6	33.8	40.9	43.0	39.9	31.7	23.5	21.5	22.5
117.5°	19.4	19.4	23.5	29.7	34.8	36.8	33.8	25.6	19.4	18.4	19.4
120°	18.4	18.4	20.5	25.6	30.7	31.7	28.6	21.5	16.4	16.4	17.4
122.5°	17.4	17.4	19.4	22.5	26.6	27.6	24.6	17.4	14.3	14.3	15.3
125°	17.4	17.4	17.4	20.5	22.5	23.5	20.5	15.3	13.3	13.3	14.3
127.5°	16.4	16.4	16.4	17.4	19.4	19.4	17.4	12.3	11.3	12.3	12.3
130°	15.3	15.3	15.3	16.4	17.4	16.4	14.3	10.2	10.2	11.3	11.3
132.5°	14.3	14.3	14.3	14.3	14.3	13.3	11.3	9.2	9.2	10.2	10.2
135°	13.3	13.3	13.3	12.3	12.3	11.3	9.2	7.2	8.2	9.2	9.2
137.5°	12.3	12.3	12.3	11.3	10.2	8.2	6.1	6.1	7.2	8.2	8.2
140°	11.3	11.3	10.2	9.2	8.2	6.1	4.1	5.1	6.1	6.1	7.2
142.5°	9.2	9.2	9.2	7.2	5.1	4.1	3.1	3.1	5.1	5.1	5.1
145°	8.2	8.2	7.2	6.1	4.1	2.0	1.0	2.0	3.1	4.1	4.1
147.5°	6.1	6.1	6.1	4.1	2.0	1.0	1.0	1.0	2.0	3.1	3.1
150°	5.1	5.1	4.1	3.1	1.0	0.0	0.0	1.0	2.0	2.0	2.0
152.5°	3.1	3.1	3.1	2.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
155°	2.0	2.0	2.0	1.0	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	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°	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6
2.5°	207.7	206.6	205.6	203.6	202.5	200.5	198.5	197.4	196.4	196.4	196.4
5°	218.9	217.9	214.8	210.7	207.7	204.6	202.5	200.5	198.5	198.5	198.5
7.5°	237.3	235.3	229.1	225.0	219.9	215.8	212.8	209.7	208.7	208.7	207.7
10°	263.9	260.9	253.7	245.5	238.3	233.2	229.1	226.1	225.0	225.0	225.0
12.5°	298.7	294.6	283.4	273.1	261.9	254.7	249.6	248.6	249.6	249.6	248.6
15°	348.8	340.6	323.3	306.9	289.5	278.2	275.2	275.2	280.3	282.3	283.4
17.5°	409.2	399.0	375.4	348.8	322.2	306.9	304.8	311.0	322.2	327.3	326.3
20°	483.9	469.5	436.8	396.9	360.1	340.6	338.6	349.8	365.2	375.4	374.4
22.5°	567.7	554.4	505.3	447.0	395.9	373.4	370.3	388.7	411.2	422.5	426.6
25°	660.8	642.4	578.0	498.2	433.7	402.0	401.0	423.5	453.2	473.6	476.7
27.5°	762.1	740.6	655.7	549.3	466.5	425.5	424.5	455.2	496.1	521.7	522.7
30°	873.6	840.9	732.4	592.3	491.0	441.9	444.0	479.8	531.9	561.6	566.7
32.5°	984.1	947.3	802.0	634.2	507.4	450.1	453.2	498.2	555.5	593.3	597.4
35°	1100.7	1053.6	871.6	661.8	516.6	451.1	454.2	505.3	567.7	608.7	612.7
37.5°	1218.3	1162.1	929.9	682.3	516.6	445.0	449.1	503.3	566.7	608.7	611.7
40°	1357.5	1275.6	985.1	690.5	508.4	433.7	438.8	492.0	551.4	590.2	593.3
42.5°	1501.7	1403.5	1037.3	688.4	494.1	419.4	424.5	473.6	525.8	557.5	560.6
45°	1675.6	1555.9	1090.5	682.3	476.7	404.1	407.1	451.1	495.1	517.6	521.7
47.5°	1889.4	1719.6	1144.7	671.1	457.3	389.7	391.8	430.7	462.4	476.7	479.8
50°	2126.7	1912.9	1204.0	655.7	438.8	376.4	379.5	411.2	433.7	439.9	440.9
52.5°	2407.9	2131.8	1259.3	637.3	422.5	366.2	370.3	399.0	414.3	415.3	416.3
55°	2711.7	2371.1	1308.4	614.8	406.1	359.1	367.2	393.8	404.1	403.0	404.1
57.5°	3028.9	2601.3	1342.1	591.3	392.8	355.0	368.3	393.8	404.1	402.0	404.1
60°	3312.2	2798.7	1347.2	560.6	382.6	355.0	374.4	401.0	410.2	410.2	412.2
62.5°	3513.7	2912.2	1313.5	529.9	373.4	357.0	382.6	410.2	419.4	419.4	421.5
65°	3595.6	2910.2	1239.8	497.2	366.2	360.1	390.8	420.4	427.6	427.6	429.6
67°	3534.2	2815.1	1144.7	472.6	362.1	363.1	396.9	426.6	432.7	431.7	432.7
67.5°	3496.3	2781.3	1124.2	465.4	361.1	363.1	397.9	427.6	433.7	432.7	432.7
70°	3183.3	2493.9	983.1	434.8	353.9	363.1	402.0	429.6	433.7	431.7	431.7
72.5°	2699.5	2086.8	824.5	404.1	345.8	360.1	400.0	426.6	428.6	425.5	425.5
75°	2147.2	1632.6	677.2	377.5	334.5	352.9	392.8	417.4	420.4	417.4	414.3
77.5°	1589.7	1209.1	547.3	348.8	321.2	341.7	380.5	404.1	407.1	404.1	401.0
80°	1108.9	859.3	440.9	320.2	303.8	325.3	363.1	383.6	387.7	385.7	380.5
82.5°	741.6	590.2	352.9	288.5	281.3	303.8	339.6	358.0	361.1	359.1	352.9
85°	506.4	411.2	291.5	254.7	256.8	278.2	308.9	323.3	326.3	323.3	317.1
87.5°	340.6	294.6	238.3	222.0	228.1	248.6	273.1	280.3	286.4	281.3	277.2
90°	246.5	222.0	192.3	189.2	199.5	216.9	233.2	234.3	242.4	240.4	232.2
92.5°	185.2	173.9	159.6	159.6	170.8	185.2	195.4	193.3	198.5	198.5	192.3
95°	146.3	140.1	133.0	136.1	146.3	156.5	159.6	155.5	160.6	161.6	159.6
97.5°	117.6	115.6	113.5	115.6	124.8	133.0	132.0	124.8	128.9	130.9	128.9
100°	95.1	94.1	95.1	99.2	106.4	111.5	108.4	101.3	104.3	104.3	104.3
102.5°	76.7	76.7	79.8	83.9	89.0	93.1	89.0	82.9	83.9	82.9	82.9
105°	60.4	61.4	65.5	70.6	74.7	76.7	72.6	66.5	65.5	62.4	63.4
107.5°	47.1	49.1	53.2	58.3	62.4	63.4	60.4	54.2	50.1	48.1	48.1



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	36.8	38.9	44.0	48.1	51.1	52.2	49.1	43.0	37.8	36.8	36.8
112.5°	29.7	31.7	35.8	39.9	43.0	43.0	39.9	34.8	28.6	27.6	27.6
115°	24.6	25.6	29.7	32.7	35.8	35.8	32.7	27.6	22.5	21.5	22.5
117.5°	20.5	21.5	24.6	27.6	29.7	29.7	26.6	21.5	17.4	17.4	17.4
120°	18.4	19.4	21.5	23.5	24.6	24.6	22.5	17.4	14.3	14.3	14.3
122.5°	16.4	16.4	18.4	19.4	21.5	20.5	18.4	14.3	11.3	12.3	12.3
125°	14.3	15.3	15.3	17.4	17.4	17.4	14.3	11.3	10.2	10.2	10.2
127.5°	13.3	13.3	14.3	14.3	15.3	14.3	11.3	8.2	8.2	9.2	9.2
130°	12.3	12.3	12.3	12.3	12.3	11.3	9.2	7.2	7.2	8.2	8.2
132.5°	10.2	11.3	11.3	10.2	10.2	9.2	7.2	5.1	6.1	6.1	6.1
135°	9.2	10.2	9.2	9.2	8.2	7.2	5.1	4.1	5.1	5.1	5.1
137.5°	8.2	8.2	8.2	7.2	6.1	5.1	4.1	3.1	4.1	4.1	4.1
140°	7.2	7.2	7.2	6.1	5.1	4.1	2.0	2.0	3.1	3.1	3.1
142.5°	5.1	6.1	5.1	4.1	3.1	2.0	1.0	1.0	2.0	3.1	2.0
145°	4.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0	1.0	1.0	1.0
147.5°	3.1	3.1	3.1	2.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0
150°	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	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)