

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: P266556

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-A-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)  
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-A-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6283.4 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U4 - G3

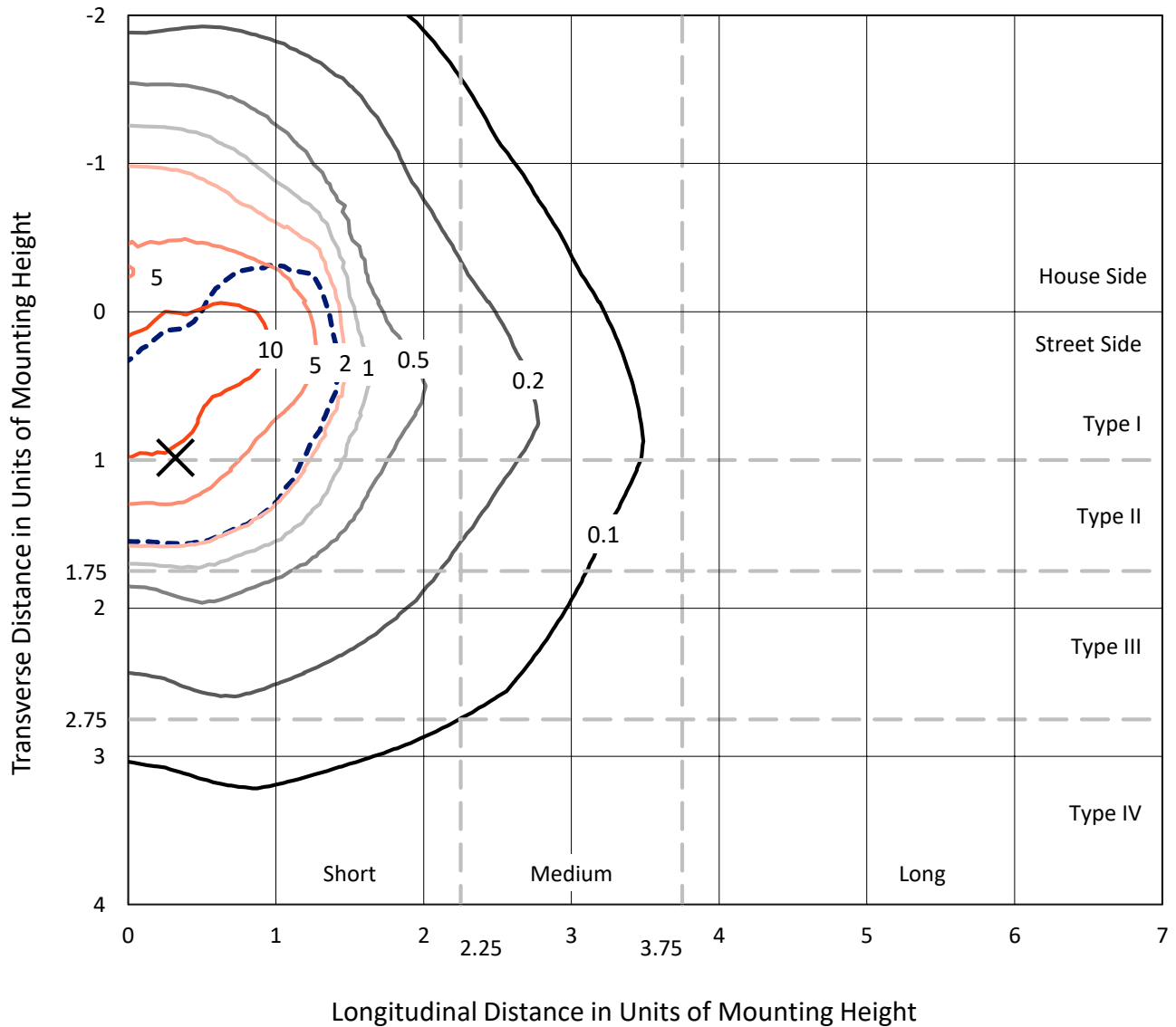
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

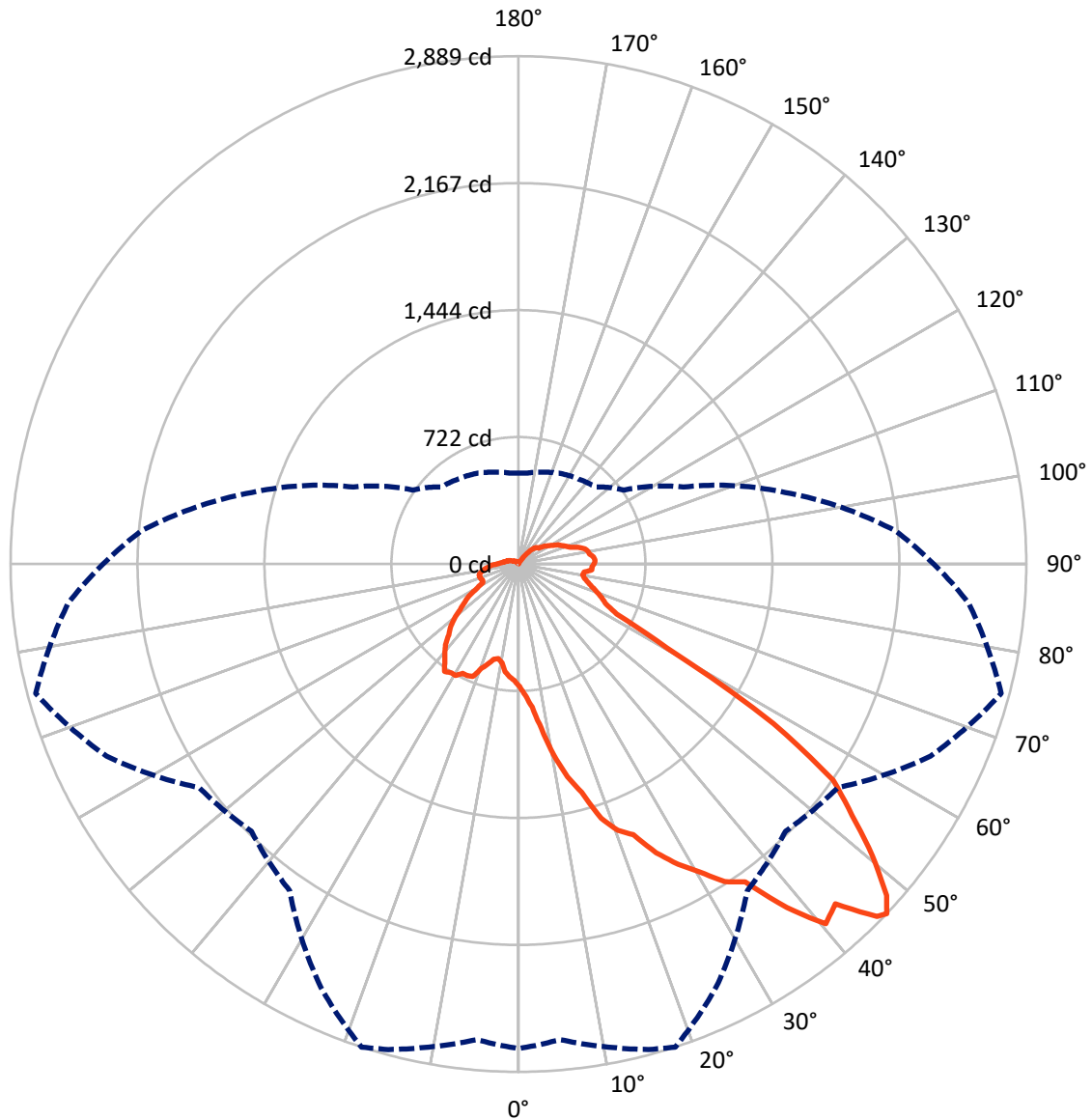


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc  
Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 18-Deg Lateral    - - - Horizontal Cone Through 46-Deg Vertical

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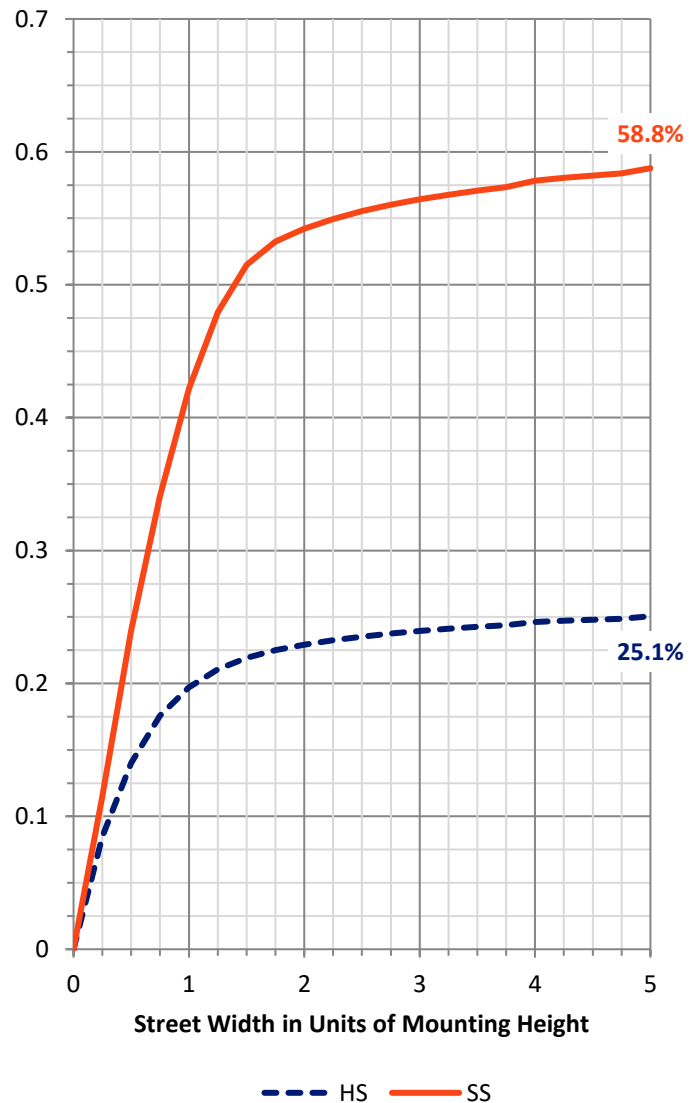
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.5	203.5	1837.9
	% Fixture	26.0	3.2	29.3
<b>Street Side</b>	Lumens	3835.5	610.0	4445.5
	% Fixture	61.0	9.7	70.7
<b>Total</b>	Lumens	5470.0	813.5	6283.4
	% Fixture	87.1	12.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	1.2
10°-20°	304.2	4.8
20°-30°	618.6	9.8
30°-40°	1012.8	16.1
40°-50°	1318.2	21.0
50°-60°	986.4	15.7
60°-70°	410.9	6.5
70°-80°	373.8	5.9
80°-90°	370.6	5.9
90°-100°	298.0	4.7
100°-110°	211.8	3.4
110°-120°	143.1	2.3
120°-130°	92.1	1.5
130°-140°	54.6	0.9
140°-150°	13.2	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5470.0	87.1
0°-180°	6283.4	100.0



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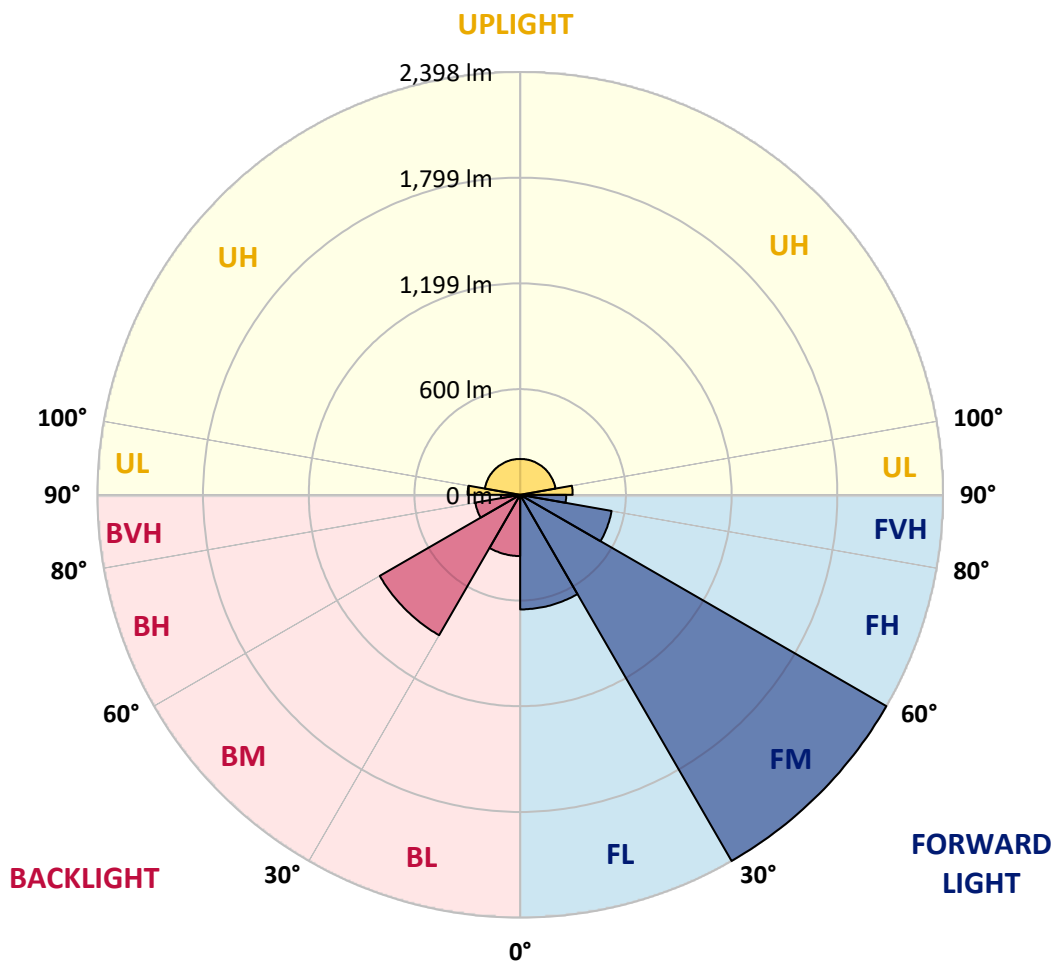
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-A-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.9	10.3			
FM (30°-60°)	2398.0	38.2			
FH (60°-80°)	526.3	8.4			G0/660
FVH (80°-90°)	261.3	4.2			G3/500
BL (0°-30°)	347.4	5.5	B1/500		
BM (30°-60°)	919.4	14.6	B1/1000		
BH (60°-80°)	258.4	4.1	B1/500		G1/500
BVH (80°-90°)	109.3	1.7			G2/225
UL (90°-100°)	298.0	4.7		U3/500	
UH (100°-180°)	203.5	3.2		U3/500	

**BUG Rating: B1-U4-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9
2.5°	748.1	744.5	746.3	746.3	742.0	740.3	735.9	730.7	723.8	715.9	709.0
5°	821.9	819.3	818.4	817.5	816.6	805.4	792.3	781.0	768.9	756.0	737.7
7.5°	958.3	957.5	952.3	946.2	937.6	918.3	894.9	883.7	867.1	847.1	819.3
10°	1128.6	1116.5	1105.2	1105.2	1087.8	1080.8	1074.0	1057.3	1047.0	1019.1	979.2
12.5°	1225.9	1219.9	1243.3	1241.5	1264.2	1305.0	1318.9	1332.8	1269.3	1188.5	1113.9
15°	1317.2	1317.2	1346.6	1347.5	1414.6	1504.8	1573.6	1506.5	1390.1	1259.9	1159.9
17.5°	1442.3	1450.1	1492.7	1521.3	1611.6	1767.2	1720.3	1596.9	1423.2	1267.7	1155.6
20°	1497.0	1514.5	1579.6	1616.9	1756.7	1903.7	1858.5	1713.3	1511.8	1334.5	1221.5
22.5°	1530.9	1543.1	1619.6	1672.6	1851.4	1975.7	1968.7	1821.9	1631.7	1410.1	1279.8
25°	1669.9	1677.8	1764.6	1819.3	2008.8	2048.8	1969.7	1868.0	1681.2	1450.9	1336.3
27.5°	1716.8	1717.6	1851.4	1934.1	2089.5	2075.7	1973.1	1930.5	1835.9	1654.3	1577.0
30°	1780.3	1778.6	1943.7	2032.2	2126.9	2067.9	1985.3	2022.7	2028.7	1881.1	1740.2
32.5°	1858.5	1851.4	2048.8	2154.8	2185.1	2066.1	2005.2	2068.6	2160.9	2007.9	1856.6
35°	1930.5	1936.7	2148.7	2220.8	2249.4	2076.5	2015.6	2154.8	2341.5	2223.3	1969.7
37.5°	2394.5	2387.5	2454.4	2479.7	2407.5	2112.2	2055.7	2261.7	2535.2	2484.1	2212.0
40°	2499.7	2476.2	2676.1	2690.9	2563.9	2238.1	2165.2	2325.9	2688.2	2779.4	2563.0
42.5°	2411.1	2404.9	2623.1	2643.1	2551.7	2323.2	2237.3	2378.1	2705.5	2780.3	2420.7
45°	2801.2	2768.9	2882.8	2859.3	2606.5	2286.7	2192.9	2319.9	2645.6	2855.1	2570.1
46°	2756.9	2715.9	2859.3	2888.9	2658.7	2268.6	2148.7	2217.2	2585.7	2842.9	2571.8
47.5°	2621.3	2624.8	2815.9	2817.7	2605.7	2271.2	2075.7	2155.7	2451.8	2687.3	2325.9
50°	2288.5	2249.4	2598.6	2609.9	2407.5	2173.0	2001.0	2037.4	2319.9	2464.1	2096.6
52.5°	2203.5	2173.0	2378.9	2377.2	2194.6	2023.5	1864.5	1902.8	2221.6	2385.9	2123.5
55°	2024.4	2014.0	2186.8	2172.1	2044.5	1839.3	1725.6	1749.0	1842.9	1778.6	1058.3
57.5°	1344.9	1384.9	1683.9	1712.4	1713.3	1616.9	1474.4	1258.0	1088.7	926.2	517.9
60°	549.1	595.1	927.9	971.3	1034.8	1212.1	1068.7	841.1	703.0	730.7	447.4
62.5°	414.5	431.8	619.6	627.2	651.6	737.7	729.0	609.9	600.3	661.2	428.3
65°	385.7	401.5	549.1	546.4	535.2	558.7	556.9	529.1	539.5	616.0	426.6
67.5°	364.9	380.5	510.0	510.9	501.3	505.7	509.1	495.2	519.6	598.6	438.0
70°	344.1	360.6	469.2	471.8	478.7	494.3	500.4	490.0	511.8	576.9	437.0
72.5°	318.9	337.1	430.9	435.3	449.2	484.8	505.7	503.1	505.7	544.7	435.3
75°	310.2	328.4	398.8	406.7	426.6	480.5	534.3	517.0	499.5	523.9	424.9
77.5°	271.9	292.8	364.9	382.3	426.6	494.3	553.4	547.3	515.2	510.0	413.6
80°	261.5	281.4	351.0	370.1	417.9	506.6	572.6	573.5	556.9	529.1	424.9
82.5°	263.3	282.3	354.6	376.2	430.9	515.2	556.9	578.7	580.3	545.6	438.0
85°	309.2	327.5	396.2	418.8	466.6	512.7	544.7	560.5	576.1	576.1	480.5
87.5°	330.1	346.7	398.8	418.8	464.9	518.7	513.6	539.5	555.2	575.2	495.2
90°	349.4	359.7	413.6	432.7	457.0	500.4	486.5	478.7	491.7	512.7	464.0
92.5°	363.2	372.7	420.5	437.0	457.9	467.5	446.5	424.0	456.1	472.7	431.8
95°	388.3	397.1	422.3	428.3	425.7	434.4	402.4	393.5	407.6	425.7	399.7
97.5°	371.0	377.1	401.5	408.4	406.7	393.5	361.5	356.2	368.3	382.3	353.7
100°	371.0	378.8	397.1	401.5	391.0	358.0	324.9	323.2	331.0	338.0	311.1
102.5°	378.8	382.3	385.7	388.3	369.3	332.7	308.5	302.4	305.0	308.5	284.1
105°	358.9	359.7	361.5	353.7	338.0	310.2	285.8	275.4	284.1	294.6	274.5
107.5°	310.2	309.2	310.2	307.6	305.9	289.3	271.9	258.9	258.9	262.3	243.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	289.3	290.2	289.3	289.3	281.4	270.2	253.7	239.8	232.8	234.5	217.2
112.5°	265.0	265.0	265.9	266.7	262.3	252.0	235.4	221.5	212.9	211.1	194.7
115°	265.0	262.3	254.6	253.7	245.0	230.2	218.1	200.7	194.7	194.7	184.2
117.5°	236.3	234.5	228.4	226.7	221.5	209.3	202.5	188.6	184.2	181.5	172.0
120°	209.3	209.3	206.8	205.9	200.7	193.8	179.0	173.7	170.3	173.7	167.8
122.5°	194.7	194.7	190.4	188.6	182.4	177.2	164.2	154.7	148.6	155.5	152.1
125°	179.0	178.1	172.0	171.1	160.7	160.7	153.8	141.7	125.1	132.1	130.3
127.5°	157.3	156.3	148.6	147.7	141.7	148.6	146.9	131.2	108.7	112.9	112.9
130°	151.2	149.5	142.6	140.8	134.7	132.9	139.9	114.8	101.7	106.0	105.1
132.5°	151.2	149.5	140.8	138.2	128.5	119.0	126.0	99.9	97.2	102.5	101.7
135°	136.5	136.5	128.5	123.3	113.8	96.5	98.2	77.3	85.2	93.0	93.0
137.5°	115.5	115.5	107.7	106.0	94.7	77.3	69.4	59.1	72.1	80.8	81.7
140°	90.4	90.4	84.4	80.8	73.0	51.3	32.2	36.6	54.7	62.5	65.1
142.5°	65.1	64.3	59.1	54.7	46.9	27.8	10.4	20.8	32.2	42.6	46.1
145°	45.2	44.2	38.3	35.7	28.7	13.0	2.6	8.8	19.1	25.2	29.6
147.5°	26.9	26.9	22.5	21.6	14.7	3.5	1.7	2.6	9.5	15.6	18.2
150°	15.6	15.6	11.3	8.8	3.5	0.9	0.9	0.9	2.6	6.9	8.8
152.5°	3.5	3.5	2.6	1.7	1.7	0.9	0.0	0.9	0.9	0.9	1.7
155°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
162.5°	0.9	0.9	0.0	0.0	0.9	0.0	0.9	0.0	0.9	0.9	0.9
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°	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9
2.5°	705.4	702.0	694.2	684.7	677.7	671.7	667.4	664.7	662.9	658.5	660.3
5°	731.6	724.7	706.3	691.5	676.0	662.1	651.6	644.7	642.1	638.5	638.5
7.5°	806.3	789.8	762.0	727.2	695.1	667.4	641.2	626.5	613.5	606.4	604.6
10°	953.1	931.5	871.4	800.2	729.9	667.4	616.9	580.3	563.0	556.9	556.9
12.5°	1074.7	1040.9	962.7	882.8	788.9	690.7	616.0	566.6	543.0	535.2	535.2
15°	1111.3	1066.9	974.8	896.7	812.3	729.9	660.3	589.1	546.4	533.5	529.1
17.5°	1100.0	1056.4	973.1	878.5	783.7	722.0	660.3	622.0	583.0	560.5	556.9
20°	1172.1	1132.1	1045.2	939.2	822.8	684.7	645.5	636.9	627.2	612.6	612.6
22.5°	1232.0	1194.7	1107.8	994.0	854.1	763.6	705.4	696.8	686.3	683.8	682.1
25°	1278.1	1238.1	1119.1	987.9	886.2	820.2	745.5	715.9	690.7	682.9	680.2
27.5°	1524.0	1462.4	1271.1	1085.2	939.2	839.2	753.3	715.1	691.5	682.1	688.1
30°	1668.2	1601.3	1391.8	1147.8	1002.7	881.0	768.9	723.8	729.9	737.7	743.7
32.5°	1778.6	1690.8	1444.8	1155.6	992.2	888.9	794.1	740.3	722.9	733.2	735.1
35°	1887.1	1780.3	1513.6	1205.0	1006.1	860.1	776.8	745.5	740.3	754.1	751.5
37.5°	2107.9	1967.9	1598.7	1219.0	993.0	826.4	747.2	714.2	687.3	683.8	688.1
40°	2396.3	2208.7	1683.9	1212.9	932.4	785.5	709.8	672.6	651.6	638.5	630.8
42.5°	2252.1	2063.4	1574.3	1164.3	858.4	712.4	671.7	638.5	611.7	595.1	590.8
45°	2410.2	2226.0	1602.1	1066.1	774.1	647.3	614.4	591.7	554.3	538.7	536.1
46°	2362.5	2153.9	1570.9	1035.7	733.2	619.6	591.7	568.2	540.4	518.7	517.0
47.5°	2188.6	1945.3	1478.8	954.0	705.4	573.5	554.3	540.4	525.7	500.4	497.0
50°	1953.2	1767.2	1312.9	848.0	594.3	511.8	495.2	491.0	474.3	444.0	446.5
52.5°	1934.9	1755.1	1222.5	780.2	527.3	448.3	443.1	430.1	416.2	389.2	388.3
55°	933.1	793.3	678.6	610.8	441.3	397.1	394.4	388.3	371.0	346.7	351.0
57.5°	442.2	385.0	332.7	352.8	346.7	348.5	350.2	349.4	329.3	296.4	303.2
60°	387.4	336.2	287.5	272.8	286.6	308.5	308.5	295.5	267.6	228.4	225.0
62.5°	373.6	322.3	278.0	258.1	265.0	278.0	271.1	250.2	222.4	186.8	185.1
65°	375.3	320.6	277.1	252.0	258.1	263.3	250.2	233.6	218.9	193.8	193.8
67.5°	383.1	327.5	280.6	249.4	253.7	257.2	245.0	232.8	224.1	205.1	206.8
70°	385.0	332.0	284.1	250.2	249.4	252.9	244.2	232.8	228.4	215.5	214.7
72.5°	385.0	335.3	280.6	244.2	242.5	244.2	238.9	232.8	232.0	224.1	222.4
75°	371.9	327.5	268.5	232.0	230.2	232.0	230.2	229.3	232.8	229.3	226.0
77.5°	358.9	319.7	259.8	222.4	219.8	218.9	218.1	218.9	224.1	221.5	216.3
80°	364.9	323.2	258.1	214.7	206.8	203.2	203.2	204.2	204.2	196.4	188.6
82.5°	375.3	329.3	249.4	199.9	186.8	180.6	182.4	188.6	191.2	185.1	179.0
85°	413.6	357.0	251.0	189.5	170.3	163.3	165.9	173.7	168.5	159.9	152.9
87.5°	430.1	366.7	245.9	173.7	158.1	155.5	155.5	159.9	156.3	142.6	136.5
90°	411.0	351.0	222.4	147.7	137.4	139.9	140.8	136.5	121.6	106.0	100.8
92.5°	385.0	328.4	205.9	135.6	121.6	120.7	120.0	117.3	106.0	88.7	85.2
95°	363.2	309.2	190.4	124.2	111.2	108.7	107.7	104.3	93.9	80.8	79.1
97.5°	316.3	270.2	173.0	114.8	99.9	98.2	97.2	93.0	83.5	73.8	73.0
100°	284.1	240.7	154.7	103.3	90.4	87.8	86.9	84.4	76.4	69.4	68.6
102.5°	258.1	220.7	143.4	94.7	80.8	77.3	77.3	75.5	71.2	67.0	67.0
105°	251.0	216.3	139.0	86.9	72.1	70.3	69.4	69.4	66.0	63.4	63.4
107.5°	220.7	189.5	120.0	77.3	65.1	63.4	63.4	63.4	62.5	61.8	62.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	199.0	171.1	110.3	72.1	60.8	58.2	58.2	58.2	58.2	59.9	59.9
112.5°	177.2	153.8	101.7	68.6	56.5	53.9	52.1	51.3	50.3	53.9	54.7
115°	167.8	146.9	97.2	65.1	53.9	51.3	47.8	46.1	43.5	46.1	46.9
117.5°	158.1	139.0	95.6	64.3	52.1	47.8	44.2	42.6	39.0	41.7	41.7
120°	155.5	138.2	97.2	65.1	50.3	44.2	41.7	37.4	35.7	37.4	38.3
122.5°	143.4	127.6	91.2	60.8	47.8	42.6	39.0	32.2	31.4	33.9	33.9
125°	121.6	109.5	79.1	54.7	45.2	41.7	38.3	28.7	29.6	31.4	32.2
127.5°	106.9	96.5	72.1	53.0	45.2	42.6	35.7	25.2	27.8	30.5	31.4
130°	99.9	92.0	72.1	54.7	46.9	43.5	29.6	23.4	26.1	28.7	28.7
132.5°	97.2	91.2	73.8	58.2	48.7	41.7	24.3	21.6	24.3	26.1	26.1
135°	89.6	84.4	70.3	56.5	44.2	33.0	19.1	19.1	22.5	24.3	24.3
137.5°	79.1	74.6	63.4	52.1	39.0	25.2	14.0	16.4	19.1	20.8	20.8
140°	63.4	60.8	52.1	40.9	27.8	14.0	10.4	13.0	15.6	17.3	17.3
142.5°	45.2	43.5	36.6	26.1	16.4	6.1	6.9	9.5	12.1	14.0	14.0
145°	29.6	27.8	22.5	16.4	6.9	1.7	4.3	6.9	9.5	10.4	10.4
147.5°	18.2	17.3	14.0	7.8	2.6	1.7	1.7	5.2	6.9	7.8	7.8
150°	9.5	8.8	6.1	2.6	0.9	0.9	0.9	1.7	4.3	5.2	6.1
152.5°	2.6	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.9	0.0	0.9	0.9	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)