

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: P240052

Luminaire Tested: **UTLD-AF24-80-D-U-SL3-A**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-80-D-U-SL3-A  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6627.7 lumens  
Efficiency: N/A  
Efficacy: 79.9 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): 83  
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

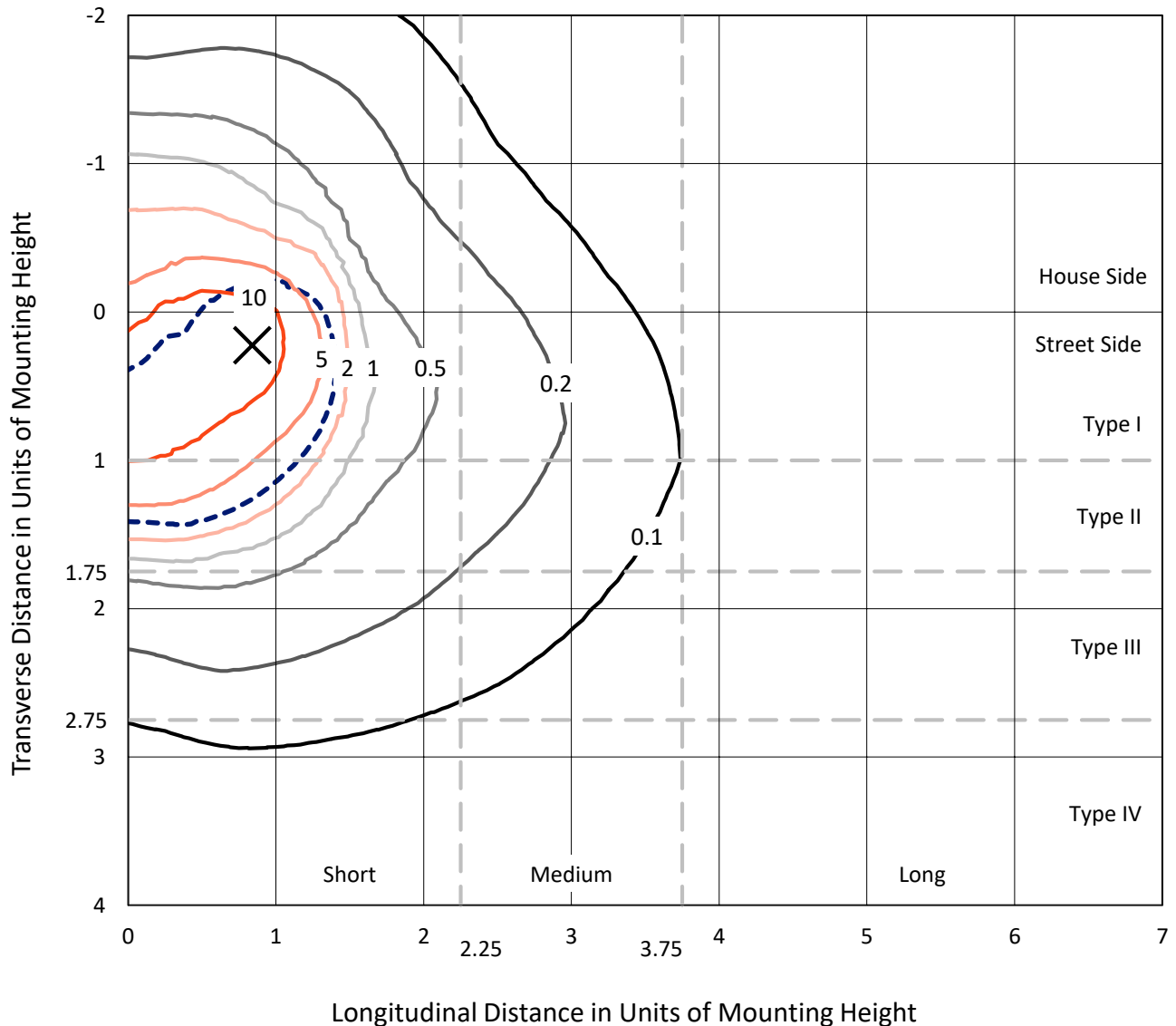


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

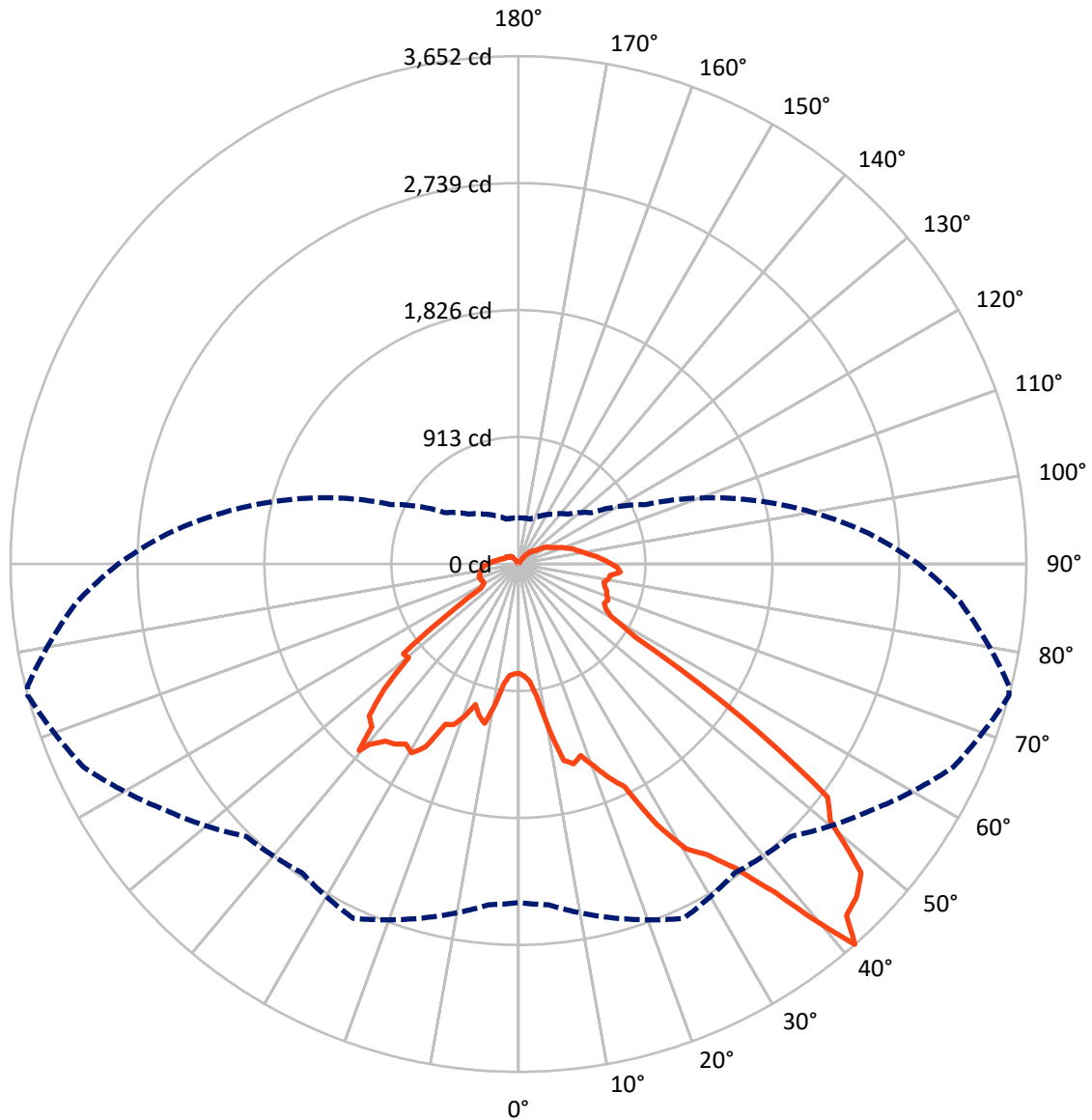


Based on 10 foot mounting height. Maximum calculated value = 17.3 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 41-Deg Vertical



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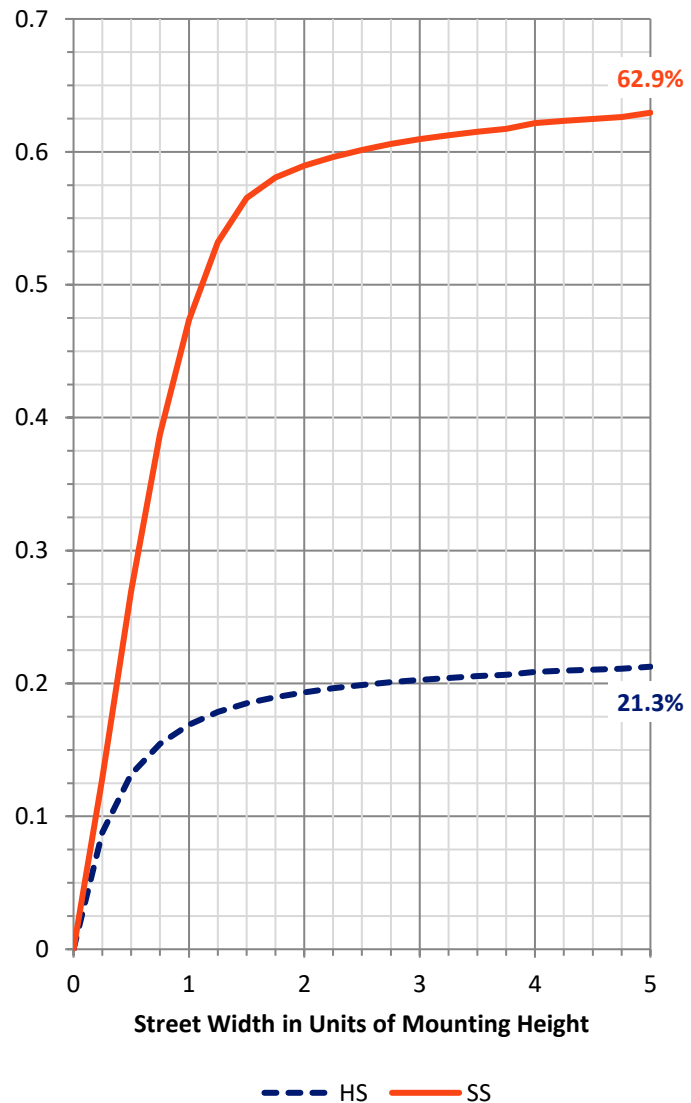
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1462.0	186.4	1648.4
	% Fixture	22.1	2.8	24.9
<b>Street Side</b>	Lumens	4299.8	679.5	4979.2
	% Fixture	64.9	10.3	75.1
<b>Total</b>	Lumens	5761.8	865.9	6627.7
	% Fixture	86.9	13.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	1.2
10°-20°	328.0	4.9
20°-30°	673.8	10.2
30°-40°	1097.0	16.6
40°-50°	1424.9	21.5
50°-60°	1010.2	15.2
60°-70°	410.6	6.2
70°-80°	371.5	5.6
80°-90°	363.0	5.5
90°-100°	311.3	4.7
100°-110°	225.5	3.4
110°-120°	153.8	2.3
120°-130°	99.9	1.5
130°-140°	59.6	0.9
140°-150°	15.1	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5761.8	86.9
0°-180°	6627.7	100.0



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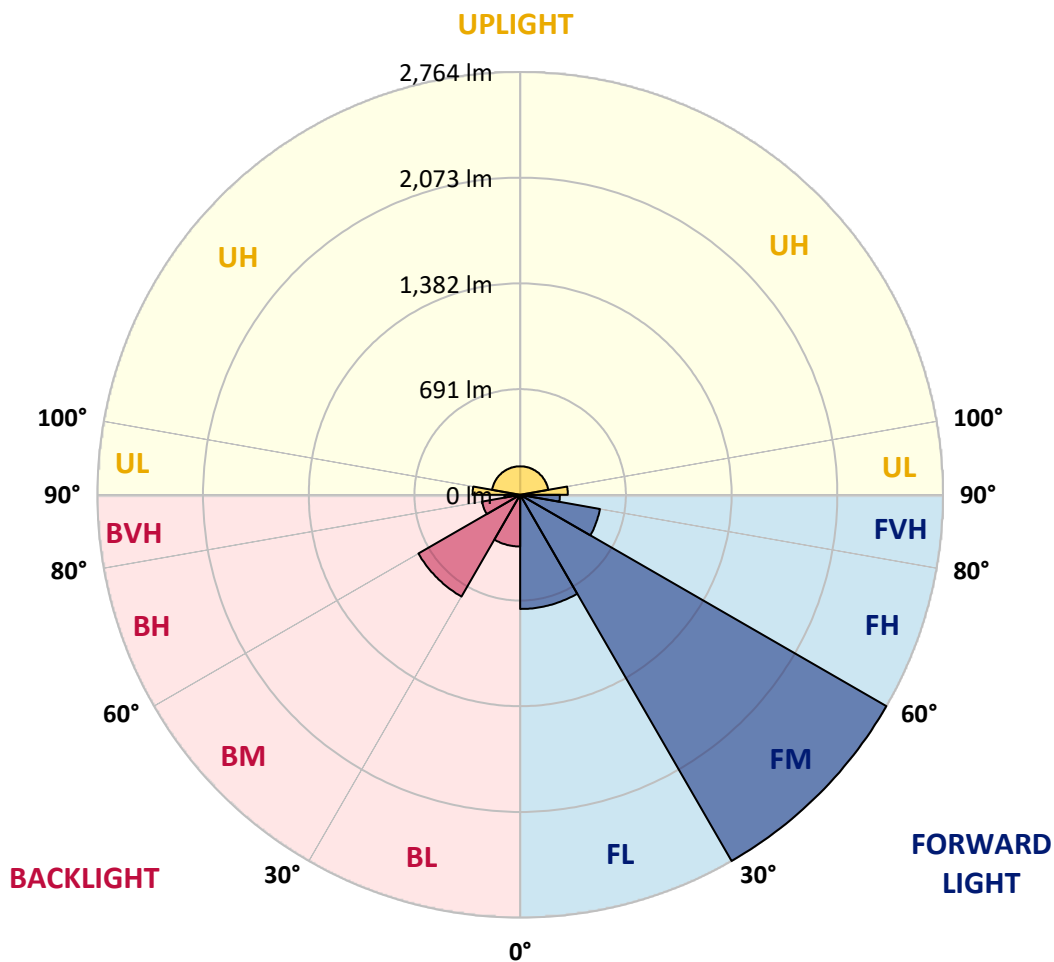
CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-A

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.3	11.3			
FM	(30°-60°)	2764.2	41.7			
FH	(60°-80°)	529.2	8.0			G0/660
FVH	(80°-90°)	260.0	3.9			G3/500
BL	(0°-30°)	338.2	5.1	B1/500		
BM	(30°-60°)	767.9	11.6	B1/1000		
BH	(60°-80°)	252.9	3.8	B1/500		G1/500
BVH	(80°-90°)	103.0	1.6			G2/225
UL	(90°-100°)	311.3	4.7		U3/500	
UH	(100°-180°)	186.4	2.8		U3/500	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	786.2	786.2	786.2	786.2	786.2	786.2	786.2	786.2	786.2	786.2	786.2
2.5°	841.0	842.8	839.0	836.3	834.3	828.7	824.0	817.3	807.9	807.0	803.2
5°	917.4	917.4	917.4	910.8	903.3	891.0	880.6	865.5	847.5	846.6	832.5
7.5°	1041.1	1041.1	1035.3	1025.9	1008.9	990.1	988.2	986.3	961.8	958.9	933.4
10°	1174.1	1170.4	1173.2	1180.7	1189.2	1214.8	1230.7	1232.7	1206.2	1199.6	1162.8
12.5°	1226.0	1229.8	1262.8	1323.3	1425.2	1527.1	1579.9	1536.6	1448.8	1437.5	1350.6
15°	1305.3	1310.0	1364.8	1465.8	1635.7	1782.9	1737.6	1629.0	1490.3	1479.9	1345.9
17.5°	1517.6	1539.3	1592.2	1752.7	1925.4	1866.0	1713.0	1573.4	1447.8	1435.6	1323.3
20°	1666.8	1679.1	1781.0	1934.8	2056.6	1966.0	1861.3	1720.6	1551.6	1551.6	1463.8
22.5°	1790.5	1786.7	1869.7	2101.9	2172.6	2114.1	1992.4	1849.0	1669.7	1661.2	1546.9
25°	1984.8	1997.1	2140.6	2397.3	2332.2	2183.1	2022.6	1891.4	1773.5	1763.1	1648.9
27.5°	2098.2	2130.2	2295.4	2518.1	2476.6	2275.6	2134.9	2115.2	2123.6	2115.2	1990.6
30°	2126.4	2140.6	2344.5	2565.4	2537.0	2387.9	2387.9	2420.9	2377.5	2365.3	2198.2
32.5°	2197.2	2231.2	2426.5	2598.4	2529.5	2501.1	2516.3	2509.6	2490.8	2473.8	2279.3
35°	2312.4	2341.6	2524.7	2654.0	2528.5	2538.9	2674.8	2753.2	2685.1	2670.1	2380.3
37.5°	2615.4	2643.6	2808.8	2801.2	2595.5	2615.4	2861.7	3005.1	2992.8	2991.0	2704.1
40°	2554.9	2648.4	2848.5	2879.6	2695.6	2717.3	3011.8	3323.2	3466.7	3462.9	3107.1
41°	2434.1	2459.6	2634.2	2810.8	2711.6	2769.2	3090.1	3451.5	3651.6	3637.5	3192.0
42.5°	2477.6	2522.8	2626.6	2685.1	2692.7	2807.9	3151.4	3467.6	3457.3	3450.6	3086.3
45°	2847.5	2866.4	2909.8	2797.5	2607.8	2751.2	3117.4	3411.0	3410.0	3379.8	3215.6
47.5°	2669.2	2722.9	2907.9	2807.9	2599.3	2597.4	2838.1	3235.4	3314.7	3271.3	2862.6
50°	2524.7	2563.4	2671.0	2564.3	2472.8	2470.9	2697.4	2996.6	2906.0	2893.7	2332.2
52.5°	2239.6	2277.5	2353.9	2327.5	2275.6	2269.9	2442.6	2755.9	2784.3	2774.9	2353.9
55°	1702.7	1729.1	2017.0	2024.5	1985.9	2004.7	2144.4	2271.8	1954.7	1903.7	1323.3
57.5°	1000.4	1068.4	1347.7	1522.4	1602.7	1617.7	1569.6	1344.1	992.0	956.0	610.7
60°	493.6	528.6	722.9	908.0	1115.6	1123.2	970.3	858.9	761.7	740.0	534.2
62.5°	352.0	372.8	500.2	598.4	714.4	733.4	679.5	725.8	705.0	691.8	520.1
65°	319.1	337.0	443.6	495.5	543.6	572.9	586.2	663.5	679.5	671.1	516.3
67.5°	291.6	309.5	404.9	444.6	480.4	527.6	555.9	632.4	693.7	688.0	547.4
70°	257.7	278.4	365.3	413.4	457.8	511.6	550.2	630.4	674.8	667.3	530.4
72.5°	225.6	244.5	315.3	371.8	437.0	498.4	555.9	614.4	663.5	656.9	537.0
75°	196.3	215.2	276.5	335.0	409.6	502.1	559.7	609.7	640.9	631.5	527.6
77.5°	176.5	195.4	248.3	305.8	388.8	507.8	611.6	630.4	629.5	620.1	516.3
80°	160.5	179.3	229.3	285.0	370.0	520.1	654.1	672.9	655.9	643.6	519.1
82.5°	155.7	173.7	219.9	281.2	373.8	527.6	666.4	713.5	665.4	650.3	516.3
85°	172.7	184.0	232.2	301.1	398.3	540.8	661.6	736.2	735.2	719.2	563.4
87.5°	205.7	215.2	262.4	332.3	424.7	548.4	720.2	750.3	710.7	703.2	569.2
90°	254.8	261.5	310.6	374.7	452.0	544.6	593.6	632.4	658.8	653.2	539.9
92.5°	303.0	311.5	355.8	403.0	437.9	468.1	516.3	605.9	609.7	605.0	519.1
95°	359.6	365.3	390.8	414.3	421.9	432.3	480.4	520.1	563.4	557.8	500.2
97.5°	390.8	393.5	404.9	402.0	384.1	386.1	439.9	482.3	508.7	502.1	437.9
100°	383.2	386.1	387.9	370.9	346.4	353.9	398.3	449.3	470.0	467.2	405.8
102.5°	358.6	363.4	364.3	347.3	324.7	326.5	370.0	408.7	430.4	426.6	378.5
105°	352.0	353.9	345.5	322.7	296.3	300.1	341.7	383.2	408.7	406.8	357.7
107.5°	317.1	319.1	306.8	285.0	275.6	286.0	323.8	350.2	367.1	367.1	319.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	266.2	266.2	263.3	258.6	260.5	275.6	306.8	323.8	337.9	337.0	291.6
112.5°	257.7	255.7	253.0	249.2	243.5	255.7	276.5	297.3	300.1	299.2	260.5
115°	253.9	251.0	241.6	231.2	224.6	234.1	250.1	269.0	276.5	275.6	248.3
117.5°	224.6	224.6	217.1	209.5	206.7	219.0	238.8	251.0	252.0	253.9	227.5
120°	201.0	201.0	196.3	192.5	194.5	200.1	221.8	232.2	241.6	240.7	218.0
122.5°	183.1	184.0	180.2	172.7	179.3	184.9	197.2	207.7	218.0	217.1	201.0
125°	165.2	164.2	160.5	151.9	167.0	174.6	175.5	174.6	184.9	184.9	170.8
127.5°	146.3	145.4	141.6	136.9	156.7	167.0	165.2	150.1	156.7	155.7	149.1
130°	144.4	143.4	136.9	131.1	140.7	158.6	150.1	139.7	145.4	146.3	139.7
132.5°	143.4	142.5	136.0	126.4	123.7	142.5	127.5	129.3	136.0	136.0	130.2
135°	134.0	133.1	127.5	114.2	101.0	117.9	101.0	111.4	119.9	119.9	115.2
137.5°	117.9	117.0	111.4	100.0	81.1	84.0	76.4	93.4	102.9	103.8	100.0
140°	93.4	94.4	88.7	77.4	58.5	44.4	50.0	72.6	82.1	82.1	81.1
142.5°	69.9	69.9	64.1	52.9	34.0	16.1	28.3	44.4	55.6	56.7	58.5
145°	49.1	49.1	43.4	34.0	17.0	2.9	13.2	26.4	34.9	34.9	37.7
147.5°	32.1	32.1	27.4	18.9	4.7	0.9	3.8	13.2	20.8	20.8	22.6
150°	19.8	19.8	15.1	5.6	0.9	0.0	0.9	2.9	9.4	9.4	12.3
152.5°	6.6	5.6	2.9	1.8	0.9	0.0	0.0	0.9	0.9	0.9	2.9
155°	1.8	1.8	1.8	0.9	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	0.9
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°	786.2	786.2	786.2	786.2	786.2	786.2	786.2	786.2	786.2	786.2	786.2
2.5°	798.5	796.6	790.0	781.5	771.1	757.9	749.4	745.6	740.9	737.1	739.0
5°	824.9	818.3	803.2	775.8	750.3	731.5	716.4	703.2	696.5	690.9	690.9
7.5°	921.2	909.8	867.4	821.1	763.5	711.7	674.8	655.9	634.2	628.6	627.7
10°	1130.7	1116.6	1026.8	915.5	807.0	705.0	612.5	562.5	538.9	526.6	529.5
12.5°	1304.4	1272.2	1170.4	1043.9	893.8	729.6	601.2	511.6	471.9	456.8	451.1
15°	1290.2	1236.4	1126.0	1006.1	889.0	769.3	640.9	539.9	457.8	430.4	424.7
17.5°	1259.0	1202.5	1056.1	902.3	765.5	691.8	620.1	546.5	484.2	442.6	435.1
20°	1417.6	1353.5	1162.8	1009.9	817.3	631.5	549.3	507.8	468.1	447.3	442.6
22.5°	1485.6	1420.5	1244.9	1051.4	860.8	700.3	566.3	489.9	458.7	454.9	449.3
25°	1587.5	1505.4	1266.6	1023.2	839.0	707.9	567.2	491.7	445.5	445.5	442.6
27.5°	1916.9	1797.0	1479.0	1136.4	871.1	680.5	553.1	470.0	414.3	392.6	387.9
30°	2064.1	1949.9	1560.1	1165.7	885.3	687.1	526.6	431.4	394.6	378.5	376.5
32.5°	2170.8	2021.7	1526.1	1094.9	813.6	641.8	504.0	417.2	380.3	366.2	362.4
35°	2223.7	2027.4	1571.5	1069.4	770.2	588.9	477.6	401.1	378.5	367.1	367.1
37.5°	2481.3	2237.8	1594.2	1062.7	737.1	538.0	454.0	402.0	353.9	337.9	338.8
40°	2837.2	2490.8	1679.1	1013.6	672.9	520.1	438.8	384.1	339.8	329.4	325.6
41°	2876.7	2527.6	1764.0	1012.7	642.7	506.9	437.9	382.3	334.1	332.3	331.3
42.5°	2771.1	2409.6	1573.4	920.2	603.1	485.1	436.1	380.3	328.5	333.2	332.3
45°	2891.9	2533.2	1530.8	842.8	534.2	449.3	413.4	370.0	324.7	316.2	317.1
47.5°	2512.5	2147.2	1317.6	733.4	472.8	410.6	382.3	346.4	315.3	310.6	310.6
50°	2000.9	1683.8	1036.4	644.7	416.2	378.5	352.0	328.5	296.3	284.1	287.9
52.5°	2038.6	1705.5	1050.5	600.3	378.5	345.5	328.5	299.2	261.5	238.8	242.5
55°	1121.3	972.1	614.4	460.6	351.1	320.9	301.1	270.9	229.3	203.9	206.7
57.5°	508.7	422.8	326.5	317.1	303.9	295.4	273.7	246.3	206.7	178.4	178.4
60°	454.9	372.8	291.6	265.3	271.8	272.7	250.1	223.7	184.9	151.9	152.9
62.5°	444.6	363.4	283.2	253.0	258.6	258.6	236.9	210.5	175.5	141.6	141.6
65°	442.6	359.6	284.1	249.2	253.0	253.9	232.2	210.5	186.9	162.3	164.2
67.5°	469.1	380.3	293.5	246.3	250.1	250.1	232.2	216.1	201.9	186.9	188.7
70°	454.9	373.8	291.6	246.3	244.5	244.5	231.2	217.1	209.5	196.3	197.2
72.5°	460.6	385.0	297.3	244.5	236.9	235.0	226.5	218.0	211.4	204.8	205.7
75°	452.0	381.4	287.9	235.0	225.6	221.8	216.1	214.2	215.2	212.4	210.5
77.5°	438.8	374.7	281.2	225.6	215.2	206.7	203.0	203.9	207.7	204.8	201.9
80°	437.0	375.6	278.4	219.9	201.9	187.8	183.1	184.9	186.0	180.2	174.6
82.5°	431.4	368.1	265.3	204.8	182.2	164.2	160.5	163.3	164.2	158.6	152.9
85°	464.3	387.9	261.5	190.7	165.2	146.3	139.7	140.7	134.0	125.5	119.9
87.5°	477.6	391.7	246.3	169.0	148.2	132.2	123.7	117.9	107.6	93.4	89.7
90°	454.0	371.8	221.8	145.4	130.2	117.9	107.6	100.0	86.8	72.6	67.9
92.5°	439.9	356.8	203.9	130.2	114.2	103.8	94.4	83.1	69.9	53.8	50.9
95°	431.4	351.1	192.5	116.1	101.9	91.6	82.1	71.7	58.5	46.2	44.4
97.5°	375.6	303.9	169.9	103.8	89.7	80.2	71.7	61.4	49.1	39.7	37.7
100°	349.2	283.2	157.6	93.4	79.3	70.8	63.2	54.7	44.4	37.7	36.8
102.5°	326.5	263.3	143.4	84.0	70.8	62.3	55.6	48.2	40.6	34.9	35.9
105°	309.5	251.0	137.8	77.4	63.2	56.7	49.1	43.4	35.9	32.1	32.1
107.5°	274.7	222.7	121.7	69.9	57.6	50.9	45.3	39.7	34.0	31.1	32.1



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	253.9	206.7	116.1	67.0	54.7	47.2	41.5	35.9	30.2	30.2	30.2
112.5°	225.6	186.0	107.6	63.2	50.9	44.4	38.7	32.1	26.4	27.4	28.3
115°	216.1	179.3	103.8	60.4	49.1	42.5	35.9	30.2	23.6	25.5	26.4
117.5°	199.2	166.1	101.0	60.4	47.2	39.7	34.0	28.3	22.6	24.6	24.6
120°	193.4	163.3	101.0	59.4	45.3	37.7	32.1	24.6	20.8	22.6	22.6
122.5°	180.2	152.9	96.3	58.5	43.4	35.9	31.1	20.8	17.9	19.8	19.8
125°	154.8	133.1	86.8	54.7	41.5	35.9	30.2	17.0	17.0	18.9	18.9
127.5°	134.9	117.0	79.3	53.8	42.5	37.7	28.3	14.1	15.1	17.0	17.0
130°	128.4	114.2	82.1	58.5	46.2	39.7	20.8	13.2	14.1	16.1	17.0
132.5°	121.7	110.5	84.0	63.2	49.1	38.7	17.0	12.3	13.2	15.1	15.1
135°	108.5	100.0	78.4	60.4	46.2	31.1	12.3	10.3	12.3	14.1	14.1
137.5°	95.3	88.7	71.7	55.6	42.5	24.6	8.5	9.4	10.3	11.4	11.4
140°	78.4	72.6	59.4	45.3	31.1	13.2	5.6	7.6	8.5	9.4	9.4
142.5°	56.7	52.9	42.5	30.2	17.9	4.7	3.8	5.6	6.6	7.6	7.6
145°	37.7	34.9	27.4	18.9	6.6	2.9	1.8	3.8	5.6	5.6	6.6
147.5°	22.6	21.7	16.1	8.5	2.9	1.8	1.8	2.9	3.8	4.7	4.7
150°	11.4	11.4	7.6	2.9	1.8	0.9	0.9	0.9	1.8	2.9	2.9
152.5°	2.9	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	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)