

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: P240054

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-A**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240054
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-AF24-100-D-U-SL3-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA 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: 7183.2 lumens
Efficiency: N/A
Efficacy: 74.8 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



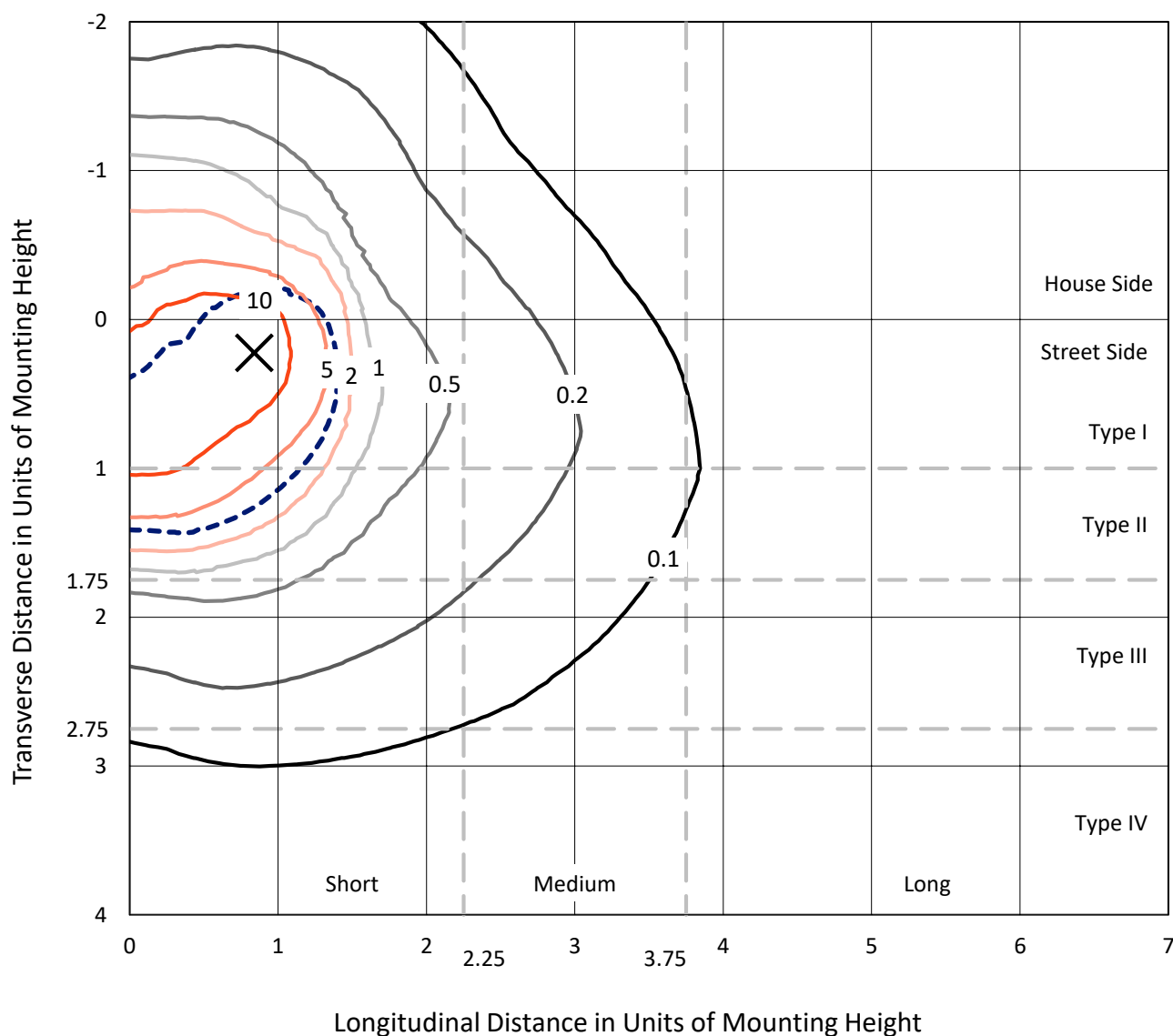
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

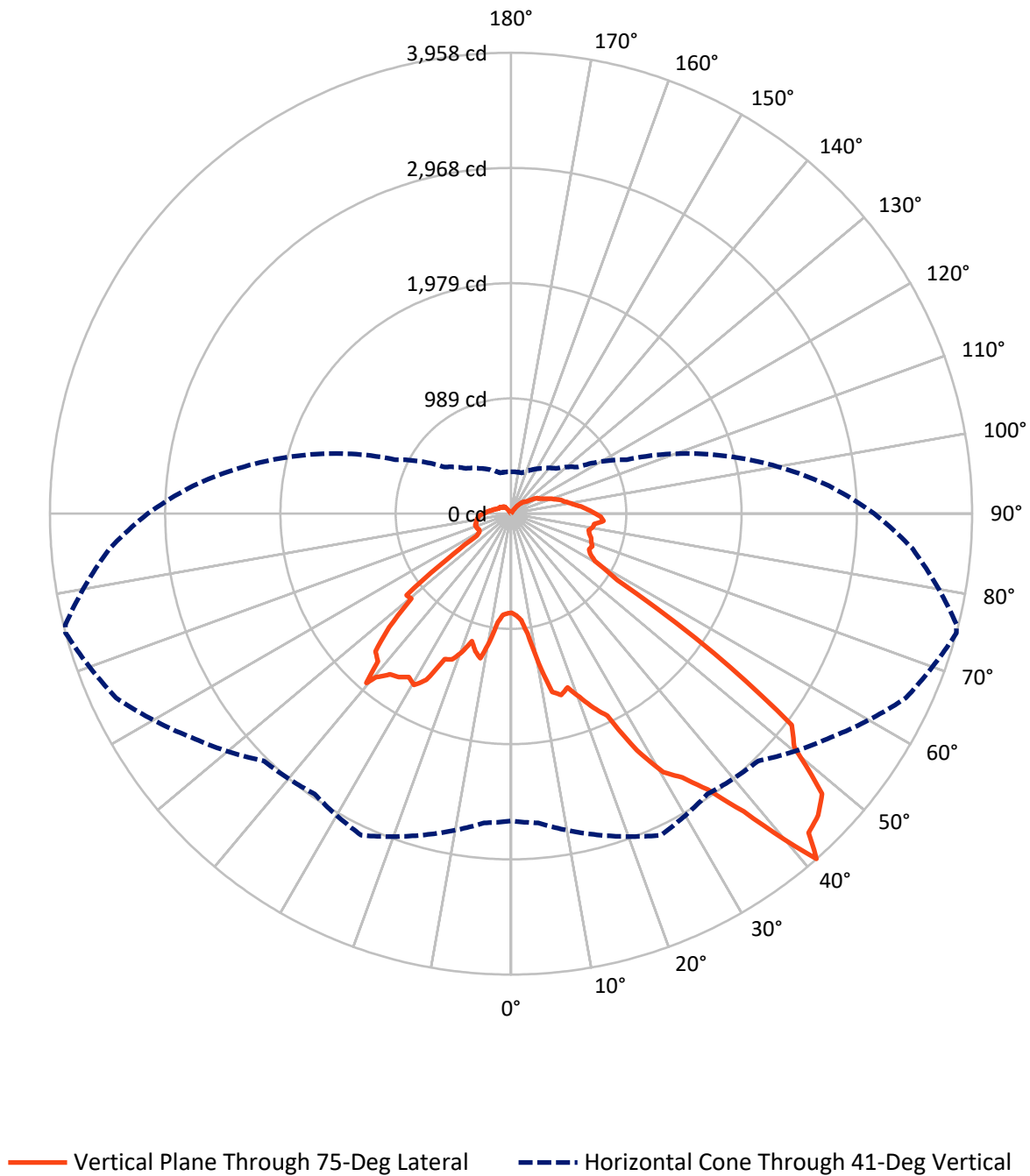


Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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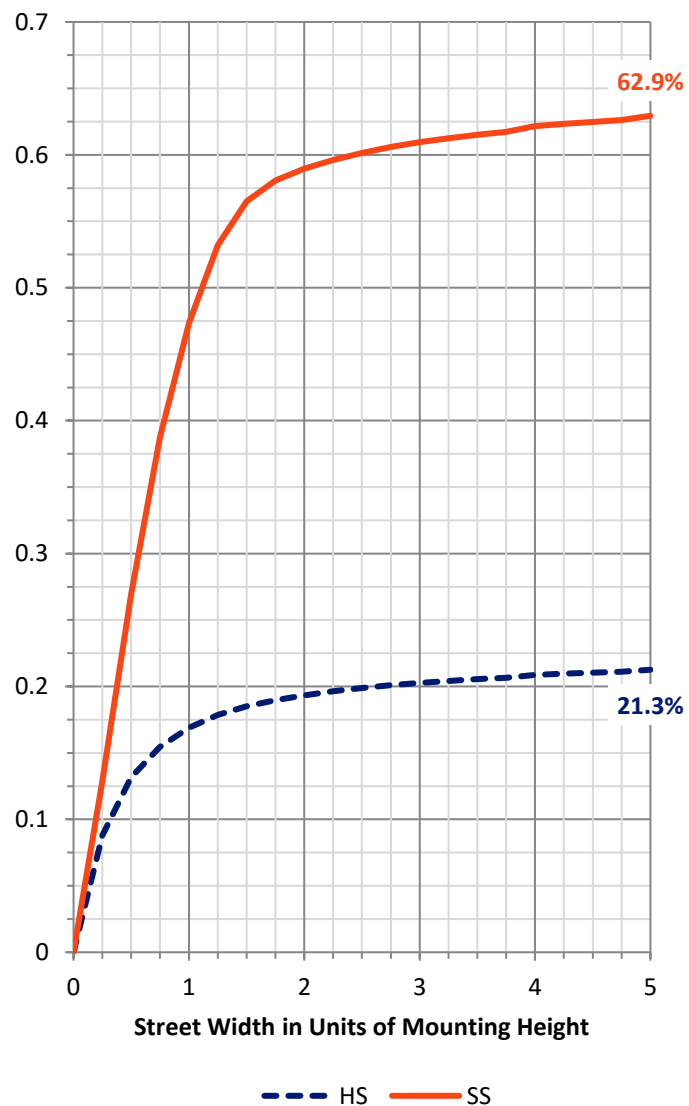
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1584.6	202.1	1786.6
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	4660.1	736.5	5396.6
	% Fixture	64.9	10.3	75.1
Total	Lumens	6244.7	938.5	7183.2
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.2
10°-20°	355.5	4.9
20°-30°	730.3	10.2
30°-40°	1188.9	16.6
40°-50°	1544.3	21.5
50°-60°	1094.9	15.2
60°-70°	445.1	6.2
70°-80°	402.7	5.6
80°-90°	393.4	5.5
90°-100°	337.4	4.7
100°-110°	244.4	3.4
110°-120°	166.7	2.3
120°-130°	108.3	1.5
130°-140°	64.6	0.9
140°-150°	16.4	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6244.7	86.9
0°-180°	7183.2	100.0

Coefficient of Utilization



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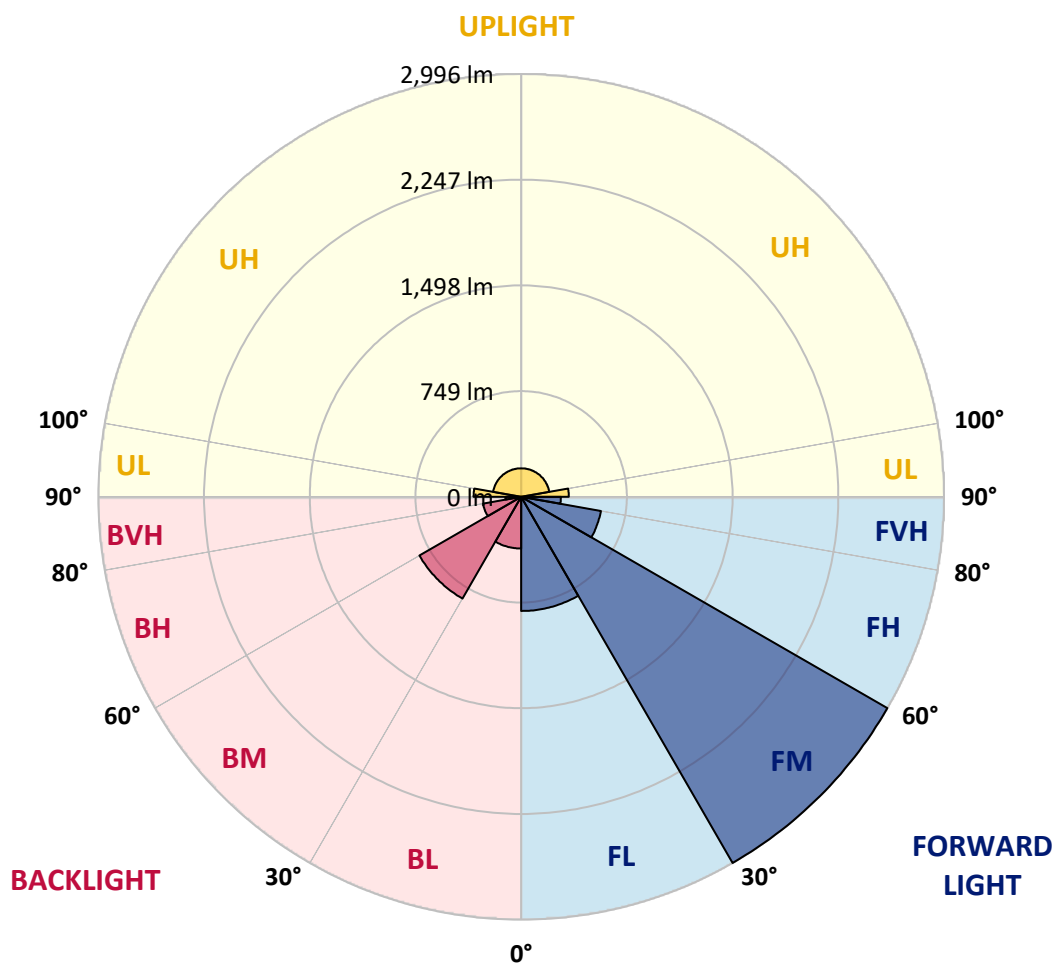
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	808.9	11.3			
FM	(30°-60°)	2995.9	41.7			
FH	(60°-80°)	573.6	8.0			G0/660
FVH	(80°-90°)	281.8	3.9			G3/500
BL	(0°-30°)	366.6	5.1	B1/500		
BM	(30°-60°)	832.2	11.6	B1/1000		
BH	(60°-80°)	274.1	3.8	B1/500		G1/500
BVH	(80°-90°)	111.6	1.6			G2/225
UL	(90°-100°)	337.4	4.7		U3/500	
UH	(100°-180°)	202.1	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°	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1
2.5°	911.4	913.5	909.4	906.3	904.3	898.2	893.0	885.9	875.6	874.6	870.5
5°	994.3	994.3	994.3	987.1	979.0	965.7	954.4	938.0	918.6	917.6	902.2
7.5°	1128.3	1128.3	1122.2	1111.9	1093.5	1073.1	1071.0	1069.0	1042.4	1039.3	1011.7
10°	1272.6	1268.5	1271.5	1279.7	1288.9	1316.5	1333.9	1336.0	1307.3	1300.2	1260.3
12.5°	1328.8	1332.9	1368.7	1434.2	1544.7	1655.1	1712.4	1665.4	1570.2	1558.0	1463.8
15°	1414.7	1419.9	1479.2	1588.6	1772.8	1932.4	1883.3	1765.6	1615.2	1604.0	1458.7
17.5°	1644.9	1668.4	1725.7	1899.6	2086.8	2022.4	1856.7	1705.3	1569.2	1555.9	1434.2
20°	1806.5	1819.8	1930.3	2097.0	2228.9	2130.8	2017.3	1864.8	1681.7	1681.7	1586.6
22.5°	1940.5	1936.4	2026.5	2278.0	2354.7	2291.3	2159.3	2004.0	1809.6	1800.4	1676.6
25°	2151.2	2164.5	2320.0	2598.2	2527.6	2366.0	2192.1	2050.0	1922.1	1910.9	1787.1
27.5°	2273.9	2308.7	2487.7	2729.1	2684.1	2466.2	2313.8	2292.3	2301.5	2292.3	2157.3
30°	2304.6	2320.0	2540.9	2780.3	2749.6	2588.0	2588.0	2623.8	2576.7	2563.4	2382.4
32.5°	2381.3	2418.2	2629.9	2816.1	2741.4	2710.7	2727.1	2719.9	2699.5	2681.1	2470.3
35°	2506.1	2537.8	2736.3	2876.4	2740.4	2751.6	2898.9	2983.8	2910.2	2893.8	2579.8
37.5°	2834.5	2865.2	3044.2	3036.0	2813.0	2834.5	3101.5	3257.0	3243.7	3241.6	2930.7
40°	2769.0	2870.3	3087.2	3120.9	2921.4	2945.0	3264.1	3601.7	3757.2	3753.1	3367.5
41°	2638.1	2665.7	2855.0	3046.2	2938.8	3001.2	3349.0	3740.8	3957.7	3942.4	3459.5
42.5°	2685.1	2734.2	2846.8	2910.2	2918.4	3043.2	3415.5	3758.2	3747.0	3739.8	3344.9
45°	3086.1	3106.6	3153.7	3031.9	2826.3	2981.8	3378.7	3696.8	3695.8	3663.1	3485.1
47.5°	2892.8	2951.1	3151.6	3043.2	2817.1	2815.1	3075.9	3506.6	3592.5	3545.4	3102.5
50°	2736.3	2778.2	2894.8	2779.3	2680.0	2678.0	2923.5	3247.8	3149.6	3136.3	2527.6
52.5°	2427.4	2468.3	2551.1	2522.5	2466.2	2460.1	2647.3	2986.9	3017.6	3007.4	2551.1
55°	1845.4	1874.0	2185.9	2194.1	2152.2	2172.6	2324.0	2462.1	2118.5	2063.3	1434.2
57.5°	1084.3	1158.0	1460.8	1650.0	1737.0	1753.3	1701.2	1456.7	1075.1	1036.2	661.8
60°	535.0	572.9	783.6	984.1	1209.1	1217.3	1051.6	930.9	825.5	802.0	579.0
62.5°	381.6	404.1	542.2	648.6	774.4	794.8	736.5	786.6	764.1	749.8	563.6
65°	345.8	365.2	480.8	537.0	589.2	620.9	635.3	719.1	736.5	727.3	559.6
67.5°	316.1	335.5	438.8	481.8	520.7	571.8	602.5	685.4	751.9	745.7	593.3
70°	279.3	301.8	395.9	448.1	496.1	554.4	596.4	683.3	731.4	723.2	574.9
72.5°	244.5	264.9	341.7	403.0	473.6	540.1	602.5	665.9	719.1	712.0	582.1
75°	212.8	233.2	299.7	363.1	444.0	544.2	606.6	660.8	694.6	684.4	571.8
77.5°	191.3	211.8	269.0	331.4	421.5	550.3	662.9	683.3	682.3	672.1	559.6
80°	173.9	194.4	248.6	308.9	401.0	563.6	708.9	729.4	711.0	697.7	562.6
82.5°	168.8	188.2	238.3	304.8	405.1	571.8	722.2	773.4	721.2	704.8	559.6
85°	187.2	199.5	251.6	326.3	431.7	586.2	717.1	797.9	796.9	779.5	610.7
87.5°	223.0	233.2	284.4	360.1	460.3	594.3	780.5	813.2	770.3	762.1	616.8
90°	276.2	283.4	336.6	406.1	490.0	590.2	643.4	685.4	714.0	707.9	585.1
92.5°	328.4	337.6	385.7	436.8	474.6	507.4	559.6	656.7	660.8	655.7	562.6
95°	389.7	395.9	423.5	449.1	457.3	468.5	520.7	563.6	610.7	604.6	542.2
97.5°	423.5	426.6	438.8	435.8	416.3	418.4	476.7	522.7	551.4	544.2	474.6
100°	415.3	418.4	420.4	402.0	375.4	383.6	431.7	486.9	509.4	506.4	439.9
102.5°	388.7	393.8	394.9	376.4	351.9	353.9	401.0	442.9	466.5	462.4	410.2
105°	381.6	383.6	374.4	349.8	321.2	325.3	370.3	415.3	442.9	440.9	387.7
107.5°	343.7	345.8	332.5	308.9	298.7	310.0	350.9	379.5	397.9	397.9	345.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	288.5	288.5	285.4	280.3	282.3	298.7	332.5	350.9	366.2	365.2	316.1
112.5°	279.3	277.2	274.2	270.1	263.9	277.2	299.7	322.2	325.3	324.3	282.3
115°	275.2	272.1	261.9	250.6	243.5	253.7	271.1	291.5	299.7	298.7	269.0
117.5°	243.5	243.5	235.3	227.1	224.0	237.3	258.8	272.1	273.1	275.2	246.5
120°	217.9	217.9	212.8	208.7	210.7	216.9	240.4	251.6	261.9	260.9	236.3
122.5°	198.5	199.5	195.4	187.2	194.4	200.5	213.8	225.0	236.3	235.3	217.9
125°	179.0	178.0	173.9	164.7	181.1	189.2	190.3	189.2	200.5	200.5	185.2
127.5°	158.6	157.5	153.4	148.3	169.8	181.1	179.0	162.6	169.8	168.8	161.6
130°	156.5	155.5	148.3	142.2	152.4	171.9	162.6	151.4	157.5	158.6	151.4
132.5°	155.5	154.5	147.3	137.1	134.0	154.5	138.1	140.1	147.3	147.3	141.2
135°	145.3	144.2	138.1	123.8	109.5	127.9	109.5	120.7	129.9	129.9	124.8
137.5°	127.9	126.8	120.7	108.4	88.0	91.0	82.9	101.3	111.5	112.5	108.4
140°	101.3	102.3	96.2	83.9	63.4	48.1	54.2	78.8	89.0	89.0	88.0
142.5°	75.7	75.7	69.6	57.3	36.8	17.4	30.7	48.1	60.4	61.4	63.4
145°	53.2	53.2	47.1	36.8	18.4	3.1	14.3	28.6	37.8	37.8	40.9
147.5°	34.8	34.8	29.7	20.5	5.1	1.0	4.1	14.3	22.5	22.5	24.6
150°	21.5	21.5	16.4	6.1	1.0	0.0	1.0	3.1	10.2	10.2	13.3
152.5°	7.2	6.1	3.1	2.0	1.0	0.0	0.0	1.0	1.0	1.0	3.1
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	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°	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1
2.5°	865.4	863.4	856.2	847.0	835.8	821.4	812.2	808.1	803.0	798.9	801.0
5°	894.1	886.9	870.5	840.9	813.2	792.8	776.4	762.1	754.9	748.8	748.8
7.5°	998.4	986.1	940.1	890.0	827.6	771.3	731.4	711.0	687.4	681.3	680.3
10°	1225.5	1210.2	1113.0	992.3	874.6	764.1	663.9	609.7	584.1	570.8	573.9
12.5°	1413.7	1378.9	1268.5	1131.4	968.7	790.7	651.6	554.4	511.5	495.1	489.0
15°	1398.4	1340.1	1220.4	1090.5	963.6	833.7	694.6	585.1	496.1	466.5	460.3
17.5°	1364.6	1303.2	1144.7	977.9	829.6	749.8	672.1	592.3	524.8	479.8	471.6
20°	1536.5	1466.9	1260.3	1094.6	885.9	684.4	595.4	550.3	507.4	484.9	479.8
22.5°	1610.1	1539.5	1349.3	1139.6	932.9	759.0	613.8	530.9	497.2	493.1	486.9
25°	1720.6	1631.6	1372.8	1108.9	909.4	767.2	614.8	533.0	482.8	482.8	479.8
27.5°	2077.6	1947.7	1603.0	1231.6	944.2	737.5	599.4	509.4	449.1	425.5	420.4
30°	2237.1	2113.4	1690.9	1263.3	959.5	744.7	570.8	467.5	427.6	410.2	408.2
32.5°	2352.7	2191.1	1654.1	1186.6	881.8	695.6	546.3	452.1	412.2	396.9	392.8
35°	2410.0	2197.2	1703.2	1159.0	834.7	638.3	517.6	434.8	410.2	397.9	397.9
37.5°	2689.2	2425.3	1727.8	1151.8	798.9	583.1	492.0	435.8	383.6	366.2	367.2
40°	3074.9	2699.5	1819.8	1098.6	729.4	563.6	475.7	416.3	368.3	357.0	352.9
41°	3117.9	2739.4	1911.9	1097.6	696.6	549.3	474.6	414.3	362.1	360.1	359.1
42.5°	3003.3	2611.5	1705.3	997.4	653.7	525.8	472.6	412.2	356.0	361.1	360.1
45°	3134.2	2745.5	1659.2	913.5	579.0	486.9	448.1	401.0	351.9	342.7	343.7
47.5°	2723.0	2327.1	1428.0	794.8	512.5	445.0	414.3	375.4	341.7	336.6	336.6
50°	2168.6	1824.9	1123.2	698.7	451.1	410.2	381.6	356.0	321.2	307.9	312.0
52.5°	2209.5	1848.5	1138.5	650.6	410.2	374.4	356.0	324.3	283.4	258.8	262.9
55°	1215.3	1053.6	665.9	499.2	380.5	347.8	326.3	293.6	248.6	221.0	224.0
57.5°	551.4	458.3	353.9	343.7	329.4	320.2	296.7	267.0	224.0	193.3	193.3
60°	493.1	404.1	316.1	287.4	294.6	295.6	271.1	242.4	200.5	164.7	165.7
62.5°	481.8	393.8	306.9	274.2	280.3	280.3	256.8	228.1	190.3	153.4	153.4
65°	479.8	389.7	307.9	270.1	274.2	275.2	251.6	228.1	202.5	175.9	178.0
67.5°	508.4	412.2	318.1	267.0	271.1	271.1	251.6	234.3	218.9	202.5	204.6
70°	493.1	405.1	316.1	267.0	264.9	264.9	250.6	235.3	227.1	212.8	213.8
72.5°	499.2	417.4	322.2	264.9	256.8	254.7	245.5	236.3	229.1	222.0	223.0
75°	490.0	413.3	312.0	254.7	244.5	240.4	234.3	232.2	233.2	230.2	228.1
77.5°	475.7	406.1	304.8	244.5	233.2	224.0	219.9	221.0	225.0	222.0	218.9
80°	473.6	407.1	301.8	238.3	218.9	203.6	198.5	200.5	201.5	195.4	189.2
82.5°	467.5	399.0	287.4	222.0	197.4	178.0	173.9	177.0	178.0	171.9	165.7
85°	503.3	420.4	283.4	206.6	179.0	158.6	151.4	152.4	145.3	136.1	129.9
87.5°	517.6	424.5	267.0	183.1	160.6	143.2	134.0	127.9	116.6	101.3	97.2
90°	492.0	403.0	240.4	157.5	141.2	127.9	116.6	108.4	94.1	78.8	73.7
92.5°	476.7	386.7	221.0	141.2	123.8	112.5	102.3	90.0	75.7	58.3	55.2
95°	467.5	380.5	208.7	125.8	110.5	99.2	89.0	77.7	63.4	50.1	48.1
97.5°	407.1	329.4	184.1	112.5	97.2	87.0	77.7	66.5	53.2	43.0	40.9
100°	378.5	306.9	170.8	101.3	85.9	76.7	68.5	59.3	48.1	40.9	39.9
102.5°	353.9	285.4	155.5	91.0	76.7	67.5	60.4	52.2	44.0	37.8	38.9
105°	335.5	272.1	149.4	83.9	68.5	61.4	53.2	47.1	38.9	34.8	34.8
107.5°	297.7	241.4	132.0	75.7	62.4	55.2	49.1	43.0	36.8	33.8	34.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	275.2	224.0	125.8	72.6	59.3	51.1	45.0	38.9	32.7	32.7	32.7
112.5°	244.5	201.5	116.6	68.5	55.2	48.1	41.9	34.8	28.6	29.7	30.7
115°	234.3	194.4	112.5	65.5	53.2	46.0	38.9	32.7	25.6	27.6	28.6
117.5°	215.8	180.0	109.5	65.5	51.1	43.0	36.8	30.7	24.6	26.6	26.6
120°	209.7	177.0	109.5	64.4	49.1	40.9	34.8	26.6	22.5	24.6	24.6
122.5°	195.4	165.7	104.3	63.4	47.1	38.9	33.8	22.5	19.4	21.5	21.5
125°	167.8	144.2	94.1	59.3	45.0	38.9	32.7	18.4	18.4	20.5	20.5
127.5°	146.3	126.8	85.9	58.3	46.0	40.9	30.7	15.3	16.4	18.4	18.4
130°	139.1	123.8	89.0	63.4	50.1	43.0	22.5	14.3	15.3	17.4	18.4
132.5°	132.0	119.7	91.0	68.5	53.2	41.9	18.4	13.3	14.3	16.4	16.4
135°	117.6	108.4	84.9	65.5	50.1	33.8	13.3	11.3	13.3	15.3	15.3
137.5°	103.3	96.2	77.7	60.4	46.0	26.6	9.2	10.2	11.3	12.3	12.3
140°	84.9	78.8	64.4	49.1	33.8	14.3	6.1	8.2	9.2	10.2	10.2
142.5°	61.4	57.3	46.0	32.7	19.4	5.1	4.1	6.1	7.2	8.2	8.2
145°	40.9	37.8	29.7	20.5	7.2	3.1	2.0	4.1	6.1	6.1	7.2
147.5°	24.6	23.5	17.4	9.2	3.1	2.0	2.0	3.1	4.1	5.1	5.1
150°	12.3	12.3	8.2	3.1	2.0	1.0	1.0	1.0	2.0	3.1	3.1
152.5°	3.1	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	1.0	1.0	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)