

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: P157185

Luminaire Tested: **UTLD-F01-LED-E-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157185
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33663)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-F01-LED-E-U-T4
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2176.9 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9
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

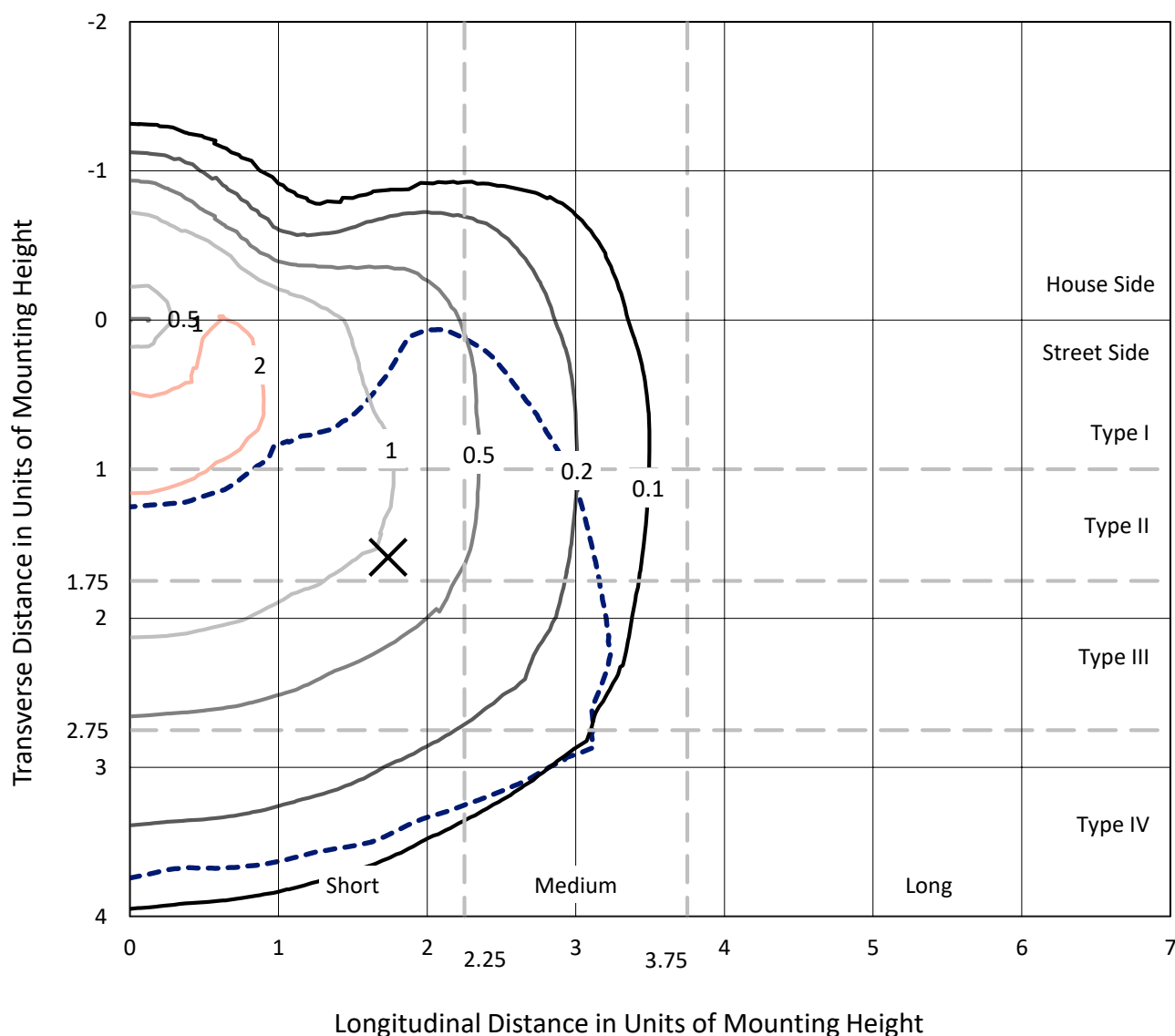


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

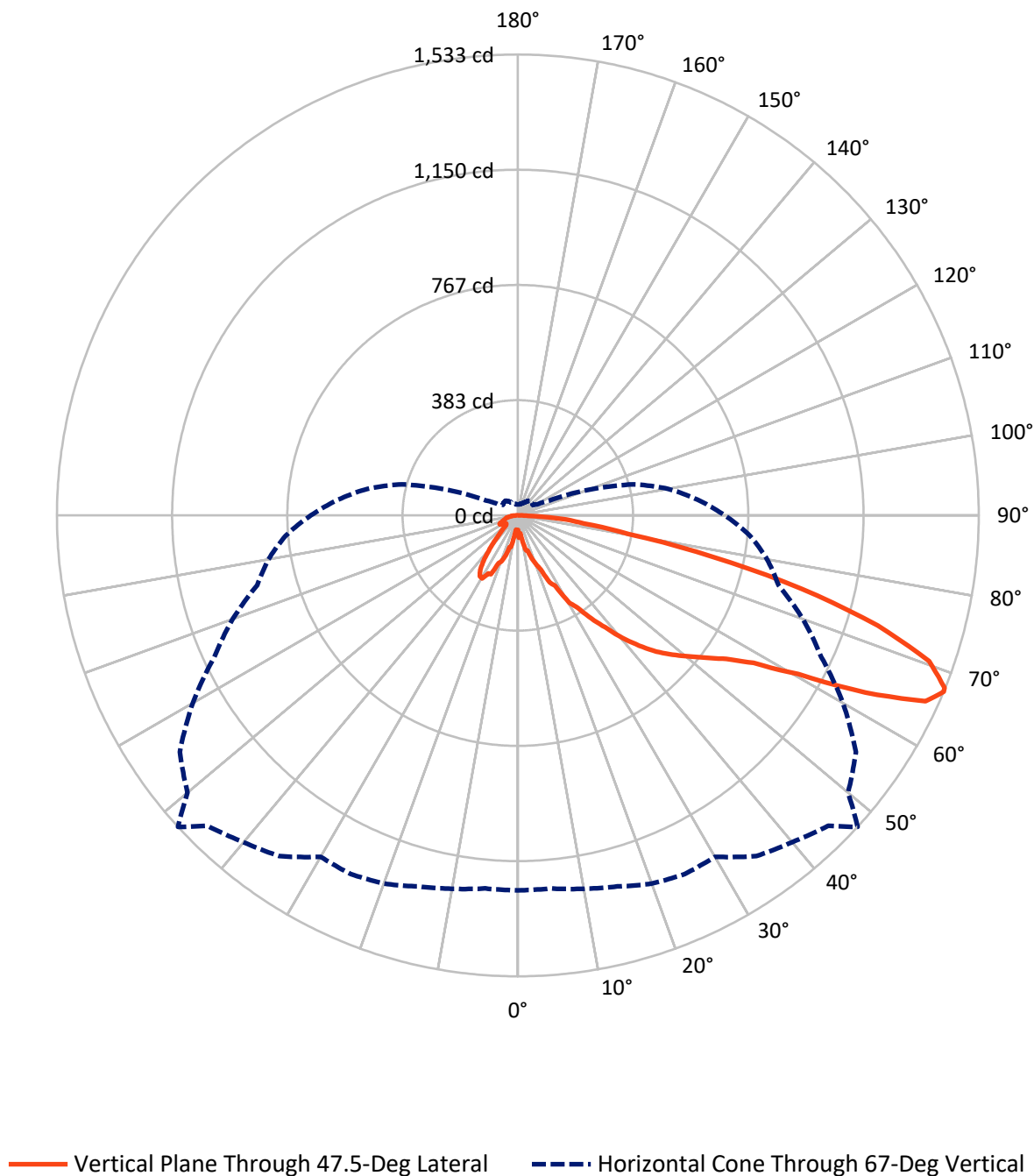


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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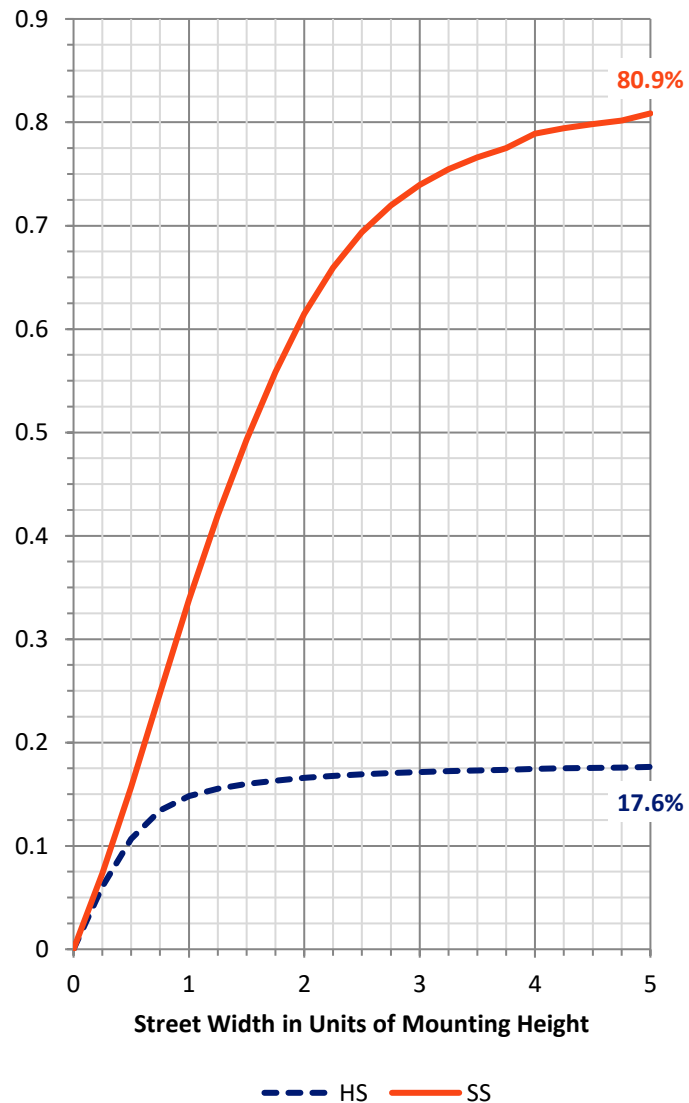
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	390.7	0.0	390.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	1786.2	0.0	1786.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	2176.9	0.0	2176.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.3
10°-20°	35.7	1.6
20°-30°	105.2	4.8
30°-40°	206.9	9.5
40°-50°	288.8	13.3
50°-60°	402.7	18.5
60°-70°	645.3	29.6
70°-80°	413.9	19.0
80°-90°	72.0	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2176.9	100.0
0°-180°	2176.9	100.0

Coefficient of Utilization



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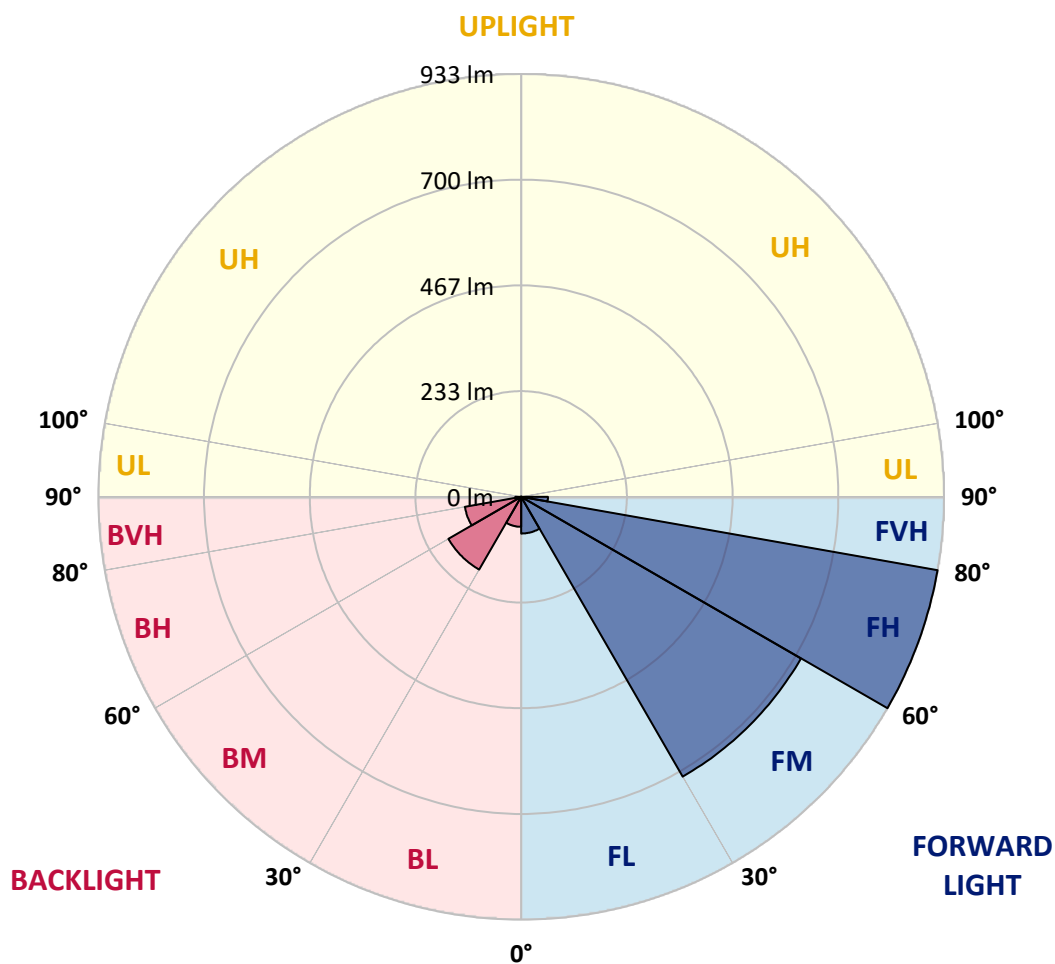
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	81.1	3.7			
FM	(30°-60°)	713.0	32.8			
FH	(60°-80°)	933.1	42.9			G1/1800
FVH	(80°-90°)	59.0	2.7			G1/100
BL	(0°-30°)	66.2	3.0	B0/110		
BM	(30°-60°)	185.4	8.5	B0/220		
BH	(60°-80°)	126.2	5.8	B1/500		G1/500
BVH	(80°-90°)	13.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
2.5°	75.1	75.5	75.1	75.5	75.5	75.1	75.1	75.1	76.4	72.6	74.3
5°	59.4	59.9	59.9	59.9	59.9	59.9	60.3	61.5	60.3	60.7	60.7
7.5°	90.8	91.6	91.6	90.8	91.2	91.2	90.8	64.8	62.7	61.5	60.3
10°	92.9	93.7	93.7	92.0	92.5	92.9	92.9	92.5	91.6	88.7	88.3
12.5°	125.9	126.3	125.9	125.5	124.7	120.5	110.6	96.2	91.6	116.0	118.1
15°	135.0	134.6	133.7	131.7	130.4	128.4	125.9	146.5	144.1	124.7	122.2
17.5°	171.3	171.3	170.5	170.1	164.7	163.0	158.1	155.2	152.3	148.2	150.7
20°	207.6	205.6	187.4	177.5	171.3	189.9	189.5	184.1	188.6	173.4	172.9
22.5°	220.8	219.6	217.9	212.6	210.9	223.7	211.3	207.6	211.7	195.6	195.2
25°	272.4	272.0	264.6	260.5	247.7	241.1	245.6	242.3	230.7	230.3	247.2
27.5°	294.7	291.8	286.5	279.4	292.2	286.9	287.7	259.6	281.5	270.4	265.8
30°	352.1	353.3	343.8	347.1	344.2	318.7	310.4	318.2	317.0	308.3	336.0
32.5°	423.9	423.5	413.2	394.6	369.4	364.5	369.4	362.4	359.9	358.3	366.5
35°	503.2	497.4	461.9	453.2	439.2	428.9	424.7	407.0	414.4	394.2	421.8
37.5°	541.5	542.4	528.7	528.7	513.9	498.6	479.6	481.7	465.6	453.2	472.6
40°	598.5	600.6	587.8	580.8	574.2	550.2	537.4	527.9	527.5	516.4	536.2
42.5°	626.2	629.5	617.9	614.2	618.7	603.0	582.4	582.0	584.5	569.2	592.3
45°	654.6	658.8	646.8	651.8	646.8	644.3	616.7	630.7	637.7	620.8	646.0
47.5°	688.1	693.4	688.9	686.0	681.1	681.1	660.8	670.3	680.6	666.2	692.6
50°	729.8	733.5	728.5	727.3	719.9	718.6	705.4	712.0	720.3	705.4	736.8
52.5°	785.1	785.9	782.6	775.2	764.0	766.5	758.7	759.1	762.4	752.5	787.1
55°	854.8	855.7	855.2	837.9	848.2	829.2	816.4	818.9	817.3	809.4	842.4
57.5°	941.9	947.3	949.8	934.5	944.0	908.9	901.5	896.9	902.7	885.0	925.4
60°	1080.6	1088.9	1084.7	1082.3	1074.8	1042.2	1032.7	1045.9	1039.7	1024.1	1072.4
62.5°	1258.5	1256.4	1266.8	1265.1	1267.2	1234.6	1212.3	1244.5	1255.2	1261.4	1298.1
65°	1304.3	1304.7	1318.0	1321.3	1337.4	1334.0	1318.8	1374.9	1393.1	1419.1	1490.5
67°	1247.4	1245.7	1261.4	1277.9	1303.5	1316.3	1311.3	1383.6	1419.1	1460.4	1533.4
67.5°	1229.6	1226.3	1243.2	1264.7	1291.1	1306.8	1303.1	1377.8	1414.9	1459.9	1531.3
70°	1113.6	1102.1	1123.5	1152.4	1176.4	1212.3	1213.9	1284.9	1336.5	1384.8	1451.3
72.5°	965.0	949.8	969.2	991.0	1008.8	1050.5	1053.0	1099.2	1152.0	1191.2	1252.7
75°	766.1	746.3	764.4	775.2	781.8	815.6	818.5	859.0	897.8	927.9	975.4
77.5°	473.9	460.6	475.5	493.3	515.5	530.4	538.7	563.4	605.9	639.8	665.4
80°	237.3	246.8	262.5	286.5	305.0	331.0	341.8	343.4	361.2	358.7	374.8
82.5°	165.1	175.4	197.7	213.0	218.8	227.0	240.2	236.1	224.1	222.1	220.4
85°	42.1	65.6	120.5	146.1	151.9	160.6	172.5	179.6	161.0	145.7	148.6
87.5°	11.6	14.0	41.3	61.1	66.0	48.7	63.2	75.5	49.1	32.6	34.3
90°	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
2.5°	66.9	59.4	56.1	51.2	49.9	49.5	48.7	48.7	48.3	48.3	48.3
5°	61.9	68.5	74.3	75.9	72.6	54.1	52.4	49.5	49.1	49.1	49.5
7.5°	60.7	61.5	61.9	59.4	69.3	69.8	50.4	49.5	49.5	49.5	49.9
10°	88.3	65.6	82.6	85.4	87.5	102.0	100.7	76.4	73.5	75.1	77.6
12.5°	118.9	122.2	109.0	88.3	90.4	91.2	102.4	79.3	74.7	77.6	93.7
15°	121.8	121.4	127.1	142.4	123.8	120.1	128.0	109.8	109.0	102.4	119.7
17.5°	172.5	147.8	143.6	144.9	132.5	126.7	117.6	127.5	115.6	112.3	109.8
20°	179.1	164.3	156.8	182.9	199.0	182.0	172.9	175.8	165.5	159.3	158.1
22.5°	194.8	212.2	219.2	202.7	202.7	200.2	218.4	205.1	199.4	192.8	189.9
25°	253.8	225.8	247.7	265.4	256.7	250.1	236.5	241.1	222.5	222.1	213.8
27.5°	277.8	294.3	286.5	288.1	274.5	295.5	286.5	276.6	259.2	255.9	260.0
30°	339.3	322.4	329.8	335.6	329.4	328.1	318.7	304.6	292.2	283.2	281.9
32.5°	364.5	376.0	372.7	365.7	386.3	392.5	386.8	353.7	342.6	319.1	319.1
35°	414.4	408.6	437.5	430.5	422.3	414.4	409.0	386.3	362.0	337.2	330.6
37.5°	469.3	475.5	474.7	461.1	447.0	432.6	426.8	404.9	377.7	355.4	325.7
40°	525.9	514.3	508.5	496.6	471.0	458.2	449.5	437.1	395.4	370.2	326.9
42.5°	578.7	570.9	543.6	525.9	507.3	488.7	464.4	454.5	412.3	380.2	322.8
45°	627.4	613.8	584.5	561.8	531.2	516.4	482.1	463.5	430.9	381.0	311.6
47.5°	668.3	654.2	624.5	586.1	558.1	536.6	504.4	488.3	448.7	390.5	311.6
50°	707.9	691.8	659.6	605.5	580.3	544.4	527.1	504.4	471.0	404.5	321.1
52.5°	751.2	731.8	693.4	631.9	603.0	568.0	549.4	530.4	499.9	423.9	336.8
55°	804.9	781.8	731.8	672.4	631.1	599.3	581.6	561.8	530.0	446.2	356.2
57.5°	882.1	849.5	790.4	736.0	685.6	658.4	633.2	605.9	578.3	485.4	388.0
60°	1014.2	978.7	902.7	853.6	798.7	762.4	722.3	700.9	658.4	560.1	440.4
62.5°	1233.7	1188.3	1116.5	1024.1	945.6	871.8	830.1	799.1	736.0	625.7	507.7
65°	1396.8	1333.6	1237.5	1118.2	1024.1	913.9	873.4	809.8	734.3	630.3	527.1
67°	1434.3	1372.8	1249.0	1113.6	1009.6	897.8	842.4	775.6	688.5	600.2	508.5
67.5°	1433.5	1373.3	1242.8	1105.8	1001.4	889.5	830.1	762.0	673.2	590.7	502.7
70°	1351.4	1302.7	1161.9	1023.7	914.7	811.1	733.1	669.1	584.9	519.3	442.9
72.5°	1150.4	1120.7	991.5	866.0	765.3	678.6	619.1	555.6	479.6	428.9	373.6
75°	898.2	856.1	731.0	633.2	551.9	494.1	446.6	389.6	329.8	300.5	279.4
77.5°	598.5	557.2	440.4	344.2	286.5	237.8	201.4	161.0	125.1	128.4	138.3
80°	325.3	292.2	210.5	151.9	123.8	100.3	84.2	64.4	47.1	56.5	64.4
82.5°	197.7	173.4	134.6	105.3	86.3	73.1	59.4	44.2	33.8	38.4	46.6
85°	137.4	121.4	96.2	75.5	61.5	49.1	38.4	28.5	26.8	29.3	33.4
87.5°	45.8	57.0	43.3	35.1	33.8	30.5	25.6	20.6	16.1	20.2	26.0
90°	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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
2.5°	48.7	49.1	51.2	52.4	52.4	51.2	59.4	58.6	71.4	72.2	75.5
5°	52.8	53.2	69.3	75.1	75.5	65.2	50.8	48.7	47.9	47.5	48.7
7.5°	59.9	69.8	63.2	45.4	47.1	47.1	47.9	47.5	47.9	56.5	77.6
10°	100.3	75.1	71.0	60.7	49.1	52.8	76.4	76.8	78.0	81.3	81.7
12.5°	88.3	77.2	72.6	73.1	100.7	108.1	104.4	79.7	80.9	83.0	97.0
15°	102.4	101.1	106.9	105.7	102.8	109.4	108.1	129.2	132.9	113.5	113.9
17.5°	104.8	105.7	130.0	133.3	130.8	143.2	135.4	133.7	136.6	134.6	128.0
20°	158.1	175.8	170.5	143.6	148.2	164.3	160.2	137.4	157.3	158.9	147.4
22.5°	165.5	181.2	186.2	201.4	200.6	168.4	173.4	181.2	164.7	157.3	171.7
25°	222.1	237.3	245.2	223.3	202.3	220.0	210.5	180.4	187.8	175.4	175.4
27.5°	276.1	253.8	261.3	251.4	258.0	222.1	211.3	223.7	186.2	189.5	193.2
30°	288.1	282.7	288.1	276.1	258.8	252.6	229.5	219.2	222.1	194.4	191.9
32.5°	308.3	298.8	288.9	267.5	265.0	246.4	230.3	226.2	205.6	195.2	193.6
35°	305.9	284.0	277.0	263.3	243.9	229.1	213.4	201.8	186.6	183.7	181.6
37.5°	298.0	264.2	244.8	231.6	215.0	201.0	178.7	170.9	165.5	160.2	157.7
40°	286.0	243.5	210.9	190.7	173.8	158.9	144.5	137.0	133.3	135.4	137.9
42.5°	265.0	219.6	174.6	151.5	133.7	121.8	112.3	109.0	107.7	109.8	113.9
45°	248.5	189.5	140.8	114.3	99.5	91.6	85.0	82.6	84.2	85.9	87.9
47.5°	241.1	166.3	112.7	86.3	74.7	70.6	66.5	64.4	65.2	66.5	68.1
50°	239.0	153.1	94.1	68.1	60.3	56.1	53.2	52.4	52.8	52.4	53.2
52.5°	239.4	153.1	85.4	59.9	52.8	49.5	47.1	46.2	45.0	44.6	45.0
55°	248.1	157.3	83.4	58.2	51.6	47.9	45.4	45.0	43.3	42.1	41.7
57.5°	274.5	172.1	88.3	61.5	53.7	50.4	47.9	47.5	45.8	43.8	42.9
60°	326.9	204.7	101.5	68.9	59.0	56.1	54.5	54.1	51.6	48.7	46.2
62.5°	381.8	240.6	117.6	76.8	65.2	64.4	64.8	64.0	60.7	54.5	49.9
65°	406.2	254.7	123.8	77.6	65.2	66.9	68.1	68.5	63.2	55.7	49.9
67°	398.7	244.8	117.6	72.6	61.1	62.7	63.2	63.6	58.2	52.0	46.6
67.5°	395.0	240.6	115.6	71.8	60.7	61.9	61.5	61.5	56.5	51.2	45.8
70°	356.6	212.6	102.0	66.5	56.5	54.9	51.6	51.6	47.9	45.0	42.1
72.5°	302.6	180.4	88.7	63.2	53.7	49.1	45.4	45.0	42.5	41.3	39.6
75°	231.1	140.3	78.0	59.9	50.8	45.4	41.3	41.7	39.2	38.8	38.0
77.5°	137.4	95.3	67.7	55.7	48.3	42.9	38.4	39.2	36.3	35.9	35.9
80°	68.5	63.6	56.1	48.3	42.1	38.0	33.4	33.4	31.4	31.0	32.2
82.5°	51.6	47.9	41.7	36.7	33.0	28.5	22.3	24.8	24.8	25.6	26.4
85°	38.4	34.3	29.7	26.0	23.9	21.5	17.3	19.0	19.4	21.1	21.9
87.5°	28.9	24.4	20.6	19.0	18.2	16.5	12.8	15.3	15.7	15.7	16.5
90°	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):

	160°	165°	170°	175°	180°
0°	48.3	48.3	48.3	48.3	48.3
2.5°	75.9	75.1	74.3	73.9	73.9
5°	47.9	46.6	46.6	46.6	46.2
7.5°	79.7	80.9	80.5	80.5	80.1
10°	81.7	81.3	81.7	81.3	81.7
12.5°	111.4	114.7	116.8	117.6	116.8
15°	117.6	117.2	117.6	118.1	117.6
17.5°	142.0	145.7	146.5	146.1	146.1
20°	139.9	143.2	143.6	145.7	143.6
22.5°	164.7	163.9	165.9	165.1	164.3
25°	172.9	165.5	183.7	184.9	183.7
27.5°	192.3	180.0	181.6	181.6	180.0
30°	199.8	194.4	195.6	197.3	196.9
32.5°	184.9	187.0	202.3	205.1	204.7
35°	182.0	184.9	182.9	185.3	193.6
37.5°	170.9	172.5	175.8	178.7	179.1
40°	149.0	155.6	160.6	162.6	164.3
42.5°	118.9	125.9	130.4	132.5	130.8
45°	92.5	97.0	100.7	102.0	100.7
47.5°	71.0	72.6	73.9	74.3	75.5
50°	54.5	54.5	54.9	54.1	54.1
52.5°	45.8	44.6	44.6	43.8	43.8
55°	41.7	40.9	40.5	39.6	39.6
57.5°	41.7	40.0	38.8	37.6	37.6
60°	43.3	40.5	38.0	36.7	36.3
62.5°	45.0	41.3	38.0	36.3	35.9
65°	44.2	40.9	38.0	36.3	35.9
67°	42.5	40.0	38.0	36.3	36.3
67.5°	42.1	40.0	38.0	36.3	35.9
70°	40.5	39.6	37.6	35.9	35.5
72.5°	38.8	38.0	35.9	34.3	33.8
75°	37.1	35.9	34.3	33.0	32.6
77.5°	35.1	33.4	31.8	30.1	29.3
80°	31.8	29.7	27.7	26.4	24.8
82.5°	26.8	26.4	23.9	22.3	20.6
85°	22.3	21.9	20.2	18.2	16.1
87.5°	16.9	17.3	16.1	14.0	9.9
90°	0.0	0.0	0.0	0.0	0.0

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